

GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.

OM protein - protein search, using sw model

Run on: June 28, 2005, 09:42:27 ; Search time 26.0601 Seconds
(without alignments)
1631.912 Million cell updates/sec

Title: US-10-622-237-2
Perfect score: 2283
Sequence: 1 MASVLPSSGSCAAAAA.....AIIAEGQNNSEKKEYFI 442

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 283416 seqs, 96216763 residues

Total number of hits satisfying chosen parameters: 283416

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

1: Pir1.*
2: Pir2.*
3: Pir3.*
4: Pir4.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | ID | Description |
|------------|-------|-------------|--------|-----------|---------------------|
| 1 | 268 | 11.7 | 407 | 2 T08732 | hypothetical prote |
| 2 | 263.5 | 11.5 | 5175 | 2 T20992 | hypothetical prote |
| 3 | 263.5 | 11.5 | 5198 | 2 T43290 | hemikenttin precurs |
| 4 | 248 | 10.9 | 518 | 2 J04024 | poliovirus recepto |
| 5 | 247.5 | 10.8 | 530 | 2 A53437 | poliovirus recepto |
| 6 | 244 | 10.7 | 417 | 2 A44194 | poliovirus recepto |
| 7 | 244 | 10.7 | 467 | 1 HUMSP3 | poliovirus recepto |
| 8 | 243 | 10.6 | 725 | 2 J00099 | poliovirus recepto |
| 9 | 242.5 | 10.6 | 538 | 2 I68093 | PRR2 delta - human |
| 10 | 241.5 | 10.6 | 392 | 2 B44194 | poliovirus recepto |
| 11 | 240 | 10.5 | 392 | 1 RWHUPD | poliovirus recepto |
| 12 | 240 | 10.5 | 417 | 1 RWHUPA | poliovirus recepto |
| 13 | 239 | 10.5 | 1088 | 1 IJXLNL | neural cell adhesi |
| 14 | 230.5 | 10.1 | 4162 | 2 T42633 | connectin/titin - |
| 15 | 230 | 10.1 | 344 | 2 I56551 | neurotrimin - rat |
| 16 | 226 | 9.9 | 812 | 2 B42632 | cell adhesion mole |
| 17 | 226 | 9.9 | 932 | 2 A42632 | cell adhesion mole |
| 18 | 225 | 9.9 | 7962 | 2 T38346 | elastic titin - hu |
| 19 | 223.5 | 9.8 | 1011 | 2 T13669 | neuromusculin - fr |
| 20 | 223 | 9.8 | 725 | 2 J00100 | neural cell adhesi |
| 21 | 223 | 9.8 | 1092 | 1 JN0635 | neural cell adhesi |
| 22 | 222 | 9.7 | 478 | 2 I53960 | PRR2 alpha - human |
| 23 | 218.5 | 9.6 | 345 | 2 S03199 | opioid-binding pro |
| 24 | 218.5 | 9.6 | 588 | 2 A45254 | surface glycoprote |
| 25 | 217 | 9.5 | 588 | 2 J040506 | adhesion molecule |
| 26 | 216.5 | 9.5 | 345 | 2 J04025 | opioid-binding cel |
| 27 | 216 | 9.5 | 765 | 2 C42632 | cell adhesion mole |
| 28 | 214 | 9.4 | 4391 | 2 A38096 | perlecan precursor |
| 29 | 210.5 | 9.2 | 345 | 2 J01239 | opioid-binding pro |

30 209.5 9.2 584 2 I50419 s-gicerin precurs
31 209 9.2 338 2 JC5519 SOK glycoprotein p
32 206 9.0 702 2 A36319 carcinoembryonic a
33 205.5 9.0 338 2 JC4776 limbic-system-asso
34 205.5 9.0 646 2 I38049 cell surface glyco
35 204.5 9.0 338 2 J01238 oploid-binding pro
36 204 8.9 3707 2 S18252 heparan sulfate pr
37 203 8.9 1323 2 PNO568 connectin 3B - chi
38 202.5 8.9 862 2 I49583 differentiation an
39 202.5 8.9 868 2 A46512 CD22 homolog/B ly
40 202 8.8 847 2 JH0371 B-cell adhesion pr
41 202 8.8 1443 2 I50600 neogenin - chicken
42 199.5 8.7 1241 2 T37190 nephrin - human
43 197 8.6 583 2 I39428 alicam - human
44 196 8.6 1091 1 IJCHNL neural cell adhesi
45 195.5 8.6 1612 2 T30805 duttl protein - mo

ALIGNMENTS

RESULT 1

T08732
hypothetical protein DKFZp566B0846.1 - human (fragment)
C;Species: Homo sapiens (man)
C;Date: 11-Jun-1999 #sequence_revision 11-Jun-1999 #text_change 09-Jul-2004
C;Accession: T08732
R;Ottenwaelder, B.; Obermaier, B.; Mewes, H.W.; Gassenhuber, J.; Wiemann, S.
submitted to the Protein Sequence Database, May 1999
A;Reference number: Z16474
A;Accession: T08732
A;Molecule type: mRNA
A;Residues: 1-407 <OPT>
A;Cross-references: UNIPROT:Q9Y412; EMBL:AL050071
A;Experimental source: fetal kidney; clone DKFZp566B0846
C;Genetics:
A;Note: DKFZp566B0846.1

Query Match 11.7%; Score 268; DB 2; Length 407;
Best Local Similarity 26.7%; Pred. No. 1.5e-11;
Matches 84; Conservative 60; Mismatches 123; Indels 48; Gaps 13;

| | | | |
|----|-----|--|-----|
| Qy | 120 | GRFCQLYDP--POESYTTITVLVPPRLMIDIQDTAVEG--EEIEVNTAMASKPAT | 175 |
| Db | 2 | GKVICAVTFLGNAQSTTTVLVEPTVSLIK-GPDSLIDGGNETVAAICIAATGPVA | 60 |
| Qy | 176 | TIRWFKGNTLKGKSEVEEWSDMY----TWTSQLMLKVHKDDGVPVICOVERHPAVTGN | 230 |
| Db | 61 | HIDW-EGDL-----GEMESTTTFPNETAIIISQYKLPPTFPARGRITCVVKPALEKD | 114 |
| Qy | 231 | LOTORVLEQYKQVHIQMTYPLQGLTRGDALELTCEAIGKQPQVMVTVVRVDEMPQH | 290 |
| Db | 115 | IRYSFILDQVAPEVSVTVYDGNWFGKRG--VNLKCNADANPPFPKSVNSRLDQWPDG | 172 |
| Qy | 291 | AVLSGPNL-FINNLTNDNGTYRCEASNIYKHAHSDYMLVYDPP--TTTPP-----PTT | 342 |
| Db | 173 | LLASDNTLHFVHLPTFNYSQYICKVTNSLQKSDQKVIYISDPTTTTLQPTTQHPST | 232 |
| Qy | 343 | TTTTTTTT-----TTTILTTITDSRAGEEGSIRAVDHAVIGGVAVVVFAMLCLLI- | 393 |
| Db | 233 | ADIEDLATEPKKLPFPPLUSTLATI-----KDDTIATIIASVVGALFIVLVSLAGIFC | 285 |
| Qy | 394 | -----ILGRYFARH 402 | |
| Db | 286 | YRRRTFRGDYFAKN 300 | |

RESULT 2

T20992
hypothetical protein F15G9.4a - Caenorhabditis elegans
C;Species: Caenorhabditis elegans
C;Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 09-Jul-2004
C;Accession: T20992; T24733

R;Sulston, J.
submitted to the EMBL Data Library, December 1994
A;Reference number: Z19355
A;Accession: T20992
A;Status: preliminary; translated from GB/EMBL/DBDJ
A;Molecule type: DNA
A;Residues: 1-5175 <WIL>
A;Cross-references: UNIPROT:Q810L3; EMBL:Z47068; PIDN:CAA87335.1; GSPDB:GN000028; CESP:F15G9.4b
A;Experimental source: clone F15G9
R;Kershaw, J.
submitted to the EMBL Data Library, December 1994
A;Reference number: Z19929
A;Accession: T24733
A;Status: preliminary; translated from GB/EMBL/DBDJ
A;Molecule type: DNA
A;Residues: 1-5175 <W12>
A;Cross-references: EMBL:Z47070; PIDN:CAA87344.1; GSPDB:GN000028; CESP:F15G9.4a
A;Experimental source: clone T09B9
C;Genetics:
A;Gene: CESP:F15G9.4a
A;Map position: X
A;Introns: 85/1; 120/1; 334/3; 370/1; 477/2; 606/3; 664/1; 935/3; 977/1; 1051/3; 1184/3;
; 2512/2; 2593/3; 2699/3; 2759/1; 2852/1; 2889/3; 2913/3; 2941/1; 2967/3; 2991/3; 3033/1
; 4225/1; 4361/1; 4408/1; 4456/1; 4498/1; 4647/3; 4838/1; 4879/1; 4941/1; 5011/1; 5077/1
Query Match 11.5%; Score 263.5; DB 2; Length 5175;
Best Local Similarity 24.6%; Pred. No. 8.2e-10;
Matches 87; Conservative 66; Mismatches 129; Indels 71; Gaps 15;
Qy 52 VTVEGEVATISCOVKNKSDSVIQLLNPRTQTYFRDFRL-----KDSRFOLLNFSSSEL 107
Db 2200 VTAIKGALPFPKPID--DDK-----NFKGQIILWLNRYQPDLEAEDARITRL---SNDR 2249
Qy 108 KVSILTNVSI DGEYFCQLYTDPQESYT-TITVLVPPRLMIDIQK-TAVEGEELEVN 165
Db 2250 RLTLNVTENDEGOYSCRKNDAGENSDFKATVLVPTTIIMLDKKNKTAVEHSTVTL 2309
Qy 166 CTAMASKPATITIRWFKG-----NTELKKGSEVEESDMYTVTSOLMLKVHK 211
Db 2310 CPA-TGKPEPDITWFKGEAIHNIADIIPNGELNG-----NQLKITRIK 2354
Qy 212 EDGVPVICOVEHPAVTGNLTQRYLEVQYKQVHV-----IQMTYPLQGLTREGDALELTCE 268
Db 2355 EGDAGKYTCBADNSA--GSVEQDVNNVITIPKIEKDGPDSYESQ-----QNERVVISCP 2408
Qy 269 AIGKPOQVMVTVVRVDEMPQHAVL-----SGPNLFINNLKNTDNGTYRCASNIVGKAHS 324
Db 2409 VYARP-PAKITWLKAGPLQSDKFVKTSAHQKLYLFKLRDTSSKYTCIATNEAGTDKR 2467
Qy 325 DYMLYVYDPTTTPP-----PTTTTTTTTTTTTTTTTTTTTTTTTTTTSDRAGE 365
Db 2468 DFKVSMVLVAFSDFEPNIVRITVNSGNPSTLHCPAKGSPSPPTITWLKDGNAIE 2520
RESULT 3
T43290
hemiscetin precursor - Caenorhabditis elegans
C;Species: Caenorhabditis elegans
C;Date: 11-Jan-2000 #sequence_revision 11-Jan-2000 #text_change 09-Jul-2004
A;Accession: T43290; T20993; T24734
R;Vogel, B.E.; Hedgecock, E.M.
submitted to the EMBL Data Library, June 1998
A;Description: Hemiscetin is required for hemidesmosome mediated cell adhesion and germ-
A;Reference number: Z22396
A;Accession: T43290
A;Status: preliminary; translated from GB/EMBL/DBDJ
A;Molecule type: mRNA
A;Residues: 1-5198 <VOG>
A;Cross-references: UNIPROT:O76518; EMBL:AF074901; PIDN:AAC26792.1
R;Sulston, J.
submitted to the EMBL Data Library, December 1994
A;Reference number: Z19355
A;Accession: T20993

A;Status: preliminary; translated from GB/EMBL/DBDJ
A;Molecule type: DNA
A;Residues: 1-5198 <WIL>
A;Cross-references: EMBL:Z47068; PIDN:CAA87336.1; GSPDB:GN000028; CESP:F15G9.4b
A;Experimental source: clone F15G9
R;Kershaw, J.
submitted to the EMBL Data Library, December 1994
A;Reference number: Z19929
A;Accession: T24734
A;Status: preliminary; translated from GB/EMBL/DBDJ
A;Molecule type: DNA
A;Residues: 1-5198 <W12>
A;Cross-references: EMBL:Z47070; PIDN:CAA87345.1; GSPDB:GN000028; CESP:F15G9.4b
A;Experimental source: clone T09B9
C;Genetics:
A;Gene: him-4; F15G9.4b
A;Map position: X
A;Introns: 85/1; 120/1; 334/3; 370/1; 477/2; 606/3; 664/1; 935/3; 977/1; 1051/3; 1184/3;
; 2512/2; 2593/3; 2699/3; 2759/1; 2852/1; 2889/3; 2913/3; 2941/1; 2967/3; 2991/3; 3033/1
; 4225/1; 4361/1; 4408/1; 4456/1; 4498/1; 4647/3; 4838/1; 4902/1; 4964/1; 5034/1; 5100/1
Query Match 11.5%; Score 263.5; DB 2; Length 5198;
Best Local Similarity 24.6%; Pred. No. 8.3e-10;
Matches 87; Conservative 66; Mismatches 129; Indels 71; Gaps 15;
Qy 52 VTVEGEVATISCOVKNKSDSVIQLLNPRTQTYFRDFRL-----KDSRFOLLNFSSSEL 107
Db 2200 VTAIKGALPFPKPID--DDK-----NFKGQIILWLNRYQPDLEAEDARITRL---SNDR 2249
Qy 108 KVSILTNVSI DGEYFCQLYTDPQESYT-TITVLVPPRLMIDIQK-TAVEGEELEVN 165
Db 2250 RLTLNVTENDEGOYSCRKNDAGENSDFKATVLVPTTIIMLDKKNKTAVEHSTVTL 2309
Qy 166 CTAMASKPATITIRWFKG-----NTELKKGSEVEESDMYTVTSOLMLKVHK 211
Db 2310 CPA-TGKPEPDITWFKGEAIHNIADIIPNGELNG-----NQLKITRIK 2354
Qy 212 EDGVPVICOVEHPAVTGNLTQRYLEVQYKQVHV-----IQMTYPLQGLTREGDALELTCE 268
Db 2355 EGDAGKYTCBADNSA--GSVEQDVNNVITIPKIEKDGPDSYESQ-----QNERVVISCP 2408
Qy 269 AIGKPOQVMVTVVRVDEMPQHAVL-----SGPNLFINNLKNTDNGTYRCASNIVGKAHS 324
Db 2409 VYARP-PAKITWLKAGPLQSDKFVKTSAHQKLYLFKLRDTSSKYTCIATNEAGTDKR 2467
Qy 325 DYMLYVYDPTTTPP-----PTTTTTTTTTTTTTTTTTTTTTTTTTTTSDRAGE 365
Db 2468 DFKVSMVLVAFSDFEPNIVRITVNSGNPSTLHCPAKGSPSPPTITWLKDGNAIE 2520
RESULT 4
JC4024
poliovirus receptor-related protein precursor - human
C;Species: Homo sapiens (man)
C;Date: 13-Jun-1995 #sequence_revision 14-Jul-1995 #text_change 05-Nov-1999
C;Accession: JC4024
R;Lopez, M.; Eberle, F.; Mattei, M.G.; Gabert, J.; Birg, F.; Bardin, P.; Maroc, C.; Dubre-
Gene 155, 261-265, 1995
A;Title: Complementary DNA characterization and chromosomal localization of a human gene
A;Reference number: JC4024; MUID:95237621; PMID:7721102
A;Accession: JC4024
A;Molecule type: mRNA
A;Residues: 1-518 <LOP>
A;Cross-references: EMBL:X76400; NID:g732795; PIDN:CAAS3980.1; PID:g732796
C;Genetics:
A;Gene: GDB:PVRR1
A;Cross-references: GDB:583951
A;Map position: 11q23-11q24
C;Superfamily: poliovirus receptor; immunoglobulin homology
C;Keywords: glycoprotein; transmembrane protein
F;1-30/Domain: signal sequence #status predicted <SIG>
F;31-518/Product: poliovirus receptor-related protein #status predicted <MAT>
F;356-379/Domain: transmembrane #status predicted <TMW>

F;36,72,82,139,287,308,333/Binding site: carbohydrate (Asn) (covalent) #status predicted

Query Match 10.9%; Score 248; DB 2; Length 518;
Best Local Similarity 25.4%; Pred. No. 5.3e-10;
Matches 105; Conservative 60; Mismatches 154; Indels 94; Gaps 20;

QY 74 IQLNPNRQTYIFRDPRLPKDSRFLNFSSELKSVLTNVSISDEGRYFCOLYDTP-- 131
DB 78 VAIYNPSMGVSLAPYR-----ERVEFLRPSFTDGIIRLSLEDEGVYICEFATPTGN 133
QY 132 QESYTTITVLVPPRLMIDIKD-TAVEGEEIEV---NCTAMASKPATTIRWFKGNTELK 187
DB 134 RESQLNLTVMKPTNWIETGQVLAIRAKKGDDKVLVATCTISANGKPPSVWSW---ETRLK 190
QY 188 GKSEV--EWSDM--YVTSQMLKVKHKEDGCVPIQVEHPATGNLQORY-----LE 238
DB 191 GEARVPGDSGTPMAPVTVISRYRLVPSREAHQQSLACIV-----NYHMDRFKESITLN 243
QY 239 VOYKPOVHIO---MTYPLQGLTREGDALETCGAIKGPQPMVMTWVRVDDMPQHAVLSG 295
DB 244 VOYEPEVTIEGFDGNYLQMD-----VKLTCKADANPPATEYHWTILNGLSPKGVBAQN 298
QY 296 PNLFINN-LNKTDNGTYRCEASNVGKAHSDYMLYVYDPTTTPPTTPTTTTTTTTTTI 354
DB 299 RTLFFKGPINSLAGTYICEATNPIGRSGQVEVNIETFPVTPSPPE----- 345
QY 355 LTIITDSRAGEEGSIRAVDHVIGGVAVVAFMCLLIILGRYFA-----RH--KGYFT 408
DB 346 -----HGRAG-----FVPTAIIIGVAGSI-----LLVLIVGGIVVVALRRRHTPKGDYST 392
QY 409 -----HEAKGA-----DGAADADTAIINAEGGQNNSEKKE 439
DB 393 KKHVYGNYSKAGIPQHHPPMAQNLQYDDSDDEKKA--GPLGGSSEYEEEEE 443

RESULT 5
A53437
Poliovirus receptor mPVR - mouse
C;Species: Mus musculus (house mouse)
C;Date: 06-Oct-1994 #sequence_revision 18-Nov-1994 #text_change 09-Jul-2004
C;Accession: A53437
R;Aoki, J.; Koike, S.; Ise, I.; Sato-Yoshida, Y.; Nomoto, A.
J. Biol. Chem. 269, 8431-8438, 1994
A;Title: Amino acid residues on human poliovirus receptor involved in interaction with P
A;Reference number: A53437; MUID:9419228; PMID:8132569
A;Accession: A53437
A;Status: preliminary
A;Molecule type: mRNA
A;Residues: 1-530 <AOK>
A;Cross-references: UNIPROT:P32507; GB:D26107; NID:9475017; PIDN:BAA05103.1; PID:g825507
A;Experimental source: C57/BL6, brain
A;Note: sequence extracted from NCBI backbone (NCBIN:146664, NCBI:P:146667)
C;Superfamily: poliovirus receptor; immunoglobulin homology
F;47-133/Domain: immunoglobulin homology <IMM>

Query Match 10.8%; Score 247.5; DB 2; Length 530;
Best Local Similarity 22.1%; Pred. No. 6e-10;
Matches 91; Conservative 63; Mismatches 166; Indels 91; Gaps 14;

QY 15 AAAAAAPPG-----LRLLRLLLSAAALPTGQGNLFTKDVTVIEGV---ATISQV 66
DB 2 ARAAVLPPSLPTPLPLPLLLL-----LIQETGAQDVRVRVLPVVRGLGGTVLPCHL 56
QY 67 -----NKSDSVIQLNPNRQTYIFRDPRLPKDSRFQL-----LNFSSS 105
DB 57 LPPTTTERVSVQVQLDGTVAAPHPS-----FGVDFFNSQFSKDRLSFVRARPETNADLR 112
QY 106 ELKVSILNVSISDEGRYFCOLYDTP--PQESYTTITVLVPPRLMIDIKD-TAVEGEEIE 163
DB 113 DATLAFRLGRVDEBGNVTCFATPNGRTRGVTLWLVIAQPN-----HAAQAEVT 163
QY 164 V-----NCTAMASKPATTIRFKG-NTELKSKSEVEESDMYTVTSQMLKVKHKEDD 214

Db 164 IGQSVAVARCVSTGGRRPARIITWISSLGGEAKDTQEPGIAQGTVTIISRYSLVPVGRAD 223
QY 215 GVPVICOVEHPAVTGNLQORYLEVQYKPOVHIQMTYPLQGLTREGDALELTCEAIGKQP 274
DB 224 GVKVTCRVESESPPEILLPVTLSRVYRPEVVIS-GYDDNWLGRSEAI-LTCDVRSNPE 281
QY 275 PVMVTVRVVDDEPQHAVLSGPNLFINNLANKTNGTYRCEASNVGKAHSDYMLYVYDPP 334
DB 282 PTDYDSTTSGVFPASAVAQGSQSLVHSDVRMWNNTTICTATNAVGTGRAEQVTLVRESP 341
QY 335 TTIPTPTPTTTTTTTTTTTTTTTTTITITDSRAGEEGSIRAVDHVIGGVAVV 385
DB 342 ST-----AGAGATGCI-----IGGIATAII 361

RESULT 6
A44194
poliovirus receptor (clone AGM-alpha-1) - green monkey
C;Species: Cercopithecus aethiops (green monkey, grivet)
C;Date: 30-Sep-1993 #sequence_revision 30-Sep-1993 #text_change 09-Jul-2004
C;Accession: A44194
R;Koike, S.; Ise, I.; Sato, Y.; Yonekawa, H.; Gotoh, O.; Nomoto, A.
J. Virol. 66, 7059-7066, 1992
A;Title: A second gene for the African green monkey poliovirus receptor that has no puta
A;Reference number: A44194; MUID:93059651; PMID:1331508
A;Accession: A44194
A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-417 <KOI>
A;Cross-references: UNIPROT:P32506; GB:948777
C;Superfamily: poliovirus receptor; immunoglobulin homology
C;Keywords: transmembrane protein
F;259-314/Domain: immunoglobulin homology <IMM>

Query Match 10.7%; Score 244; DB 2; Length 417;
Best Local Similarity 23.5%; Pred. No. 7.8e-10;
Matches 108; Conservative 70; Mismatches 192; Indels 90; Gaps 18;

QY 13 AAAAAAAPGLRLRLRLLLSAAALPTGQGNLFTKDVTV--IEGEVATISC--QWVK 68
DB 2 ARTMAAAWPP-----LLLTLELSWPPPGTGDIIVQAPQVPGFLGDSVTLPCYLQVPG 55
QY 69 SDDSVIQLNPNR-----QTYIFRDPRLPKDSRFLNFSSELKSVLTNVS-----I 116
DB 56 MEETHVSQLTWSRHSGSGSMVPHQTQGPYSEPKRLEFVAARLGTBLRDLASLRFGLRV 115
QY 117 SDEGRYFCOLYDTPPOESYTT---ITVLVPPRLMIDIKD-TAVEGEEIEV-NCTAMASK 172
DB 116 EDEGNYTC-LFVTFPQGRSVDIWLRLAKPQN-TAEVQK-VQLTGKFPVVARCVSTGGR 172
QY 173 PATTIRWFKGNTELKSKSEYEE-----WSDMYTVTSQMLKVKHKEDGCVPIQVEHPAVT 228
DB 173 PPAHITW---HSDLGGMPTNSQAPFLSGTGTVTLSLWILVPSQVQDGKSVCKVEHESFE 229
QY 229 GNLQORYLEVQYKPOVHIQMTYPLQGLTREGDALELTCEAIGKQPQPMVMTWVRVDDMP 288
DB 230 KPQLLTNLTVTVYRPEVVIS-GYDDNWLGRSEAI-LTCDARSNPEPTGYNWNSTWMTGPLP 287
QY 289 QHAVLSGPNLFINNLANKTNGTYRCEASNVGKAHSDYMLYVYDPTTTPPTTPTTTTTTT 348
DB 288 PFVAQAQALLIRPVKPINTTICTVNTALGARQALRTVQKGGPSESGHSSN----- 343
QY 349 TTTTITLTITDSRAGEEGSIRAVDHVIGGVAVVAFMCLLIIL-----GRYFAHK 403
DB 344 -----IIIFLILGIVILLTLLGIGVYFYRSR 369
QY 404 GT-----YFTEAKGADDAADADTAIINAEGGQNNSEKKE 439
DB 370 CSREFLWCHLSPSSEHSA-----SANGYISYSDVSRE 404

RESULT 7
HLMSF3

Db 372 TDAGEYFCIASNP-IGVDMQAM-YFEVQYAPKIR-...GPVVVYTWEGNPWNITCEVFAH 425
Qy 273 PQPVWVWVRVDDDEMPQH-...AVLGGP-...NLFINNANKTNDGTTCRCEASNIIVGKAHS 324
Db 426 PR-AAVTFRDQGLPSPNSFNKIYSGPTSSSLEVPNDSEDFNGYNCTAINTIGHEFS 484
Qy 325 DYMLYVYDDPTTIPPTTTTITTT 364
Db 485 EFILVQADTFSS-...PAIRKVEPSSIVMVFDEPDSTGG 521

RESULT 14
T42633
connectin/titin - chicken (fragment)
C:Species: Gallus gallus (chicken)
C>Date: 11-Jan-2000 #sequence_revision 11-Jan-2000 #text_change 09-Jul-2004
C:Accession: T42633
R:Yajima, H.; Ohtsuka, H.; Kawamura, Y.; Kume, H.; Murayama, T.; Abe, H.; Kimura, S.; Ma
Biochem. Biophys. Res. Commun. 223, 160-164, 1996
A:Title: A 11.5-kb 5'-terminal cDNA sequence of chicken breast muscle connectin/titin re
A:Reference number: 222221; MUID:96254045; PMID:8660363
A:Accession: T42633
A:Status: preliminary; translated from GB/EMBL/DBJ
A:Molecule type: mRNA
A:Residues: 1-4162 <YAJ>
A:Cross-references: UNIPROT:Q98918; EMBL:D83390; NID:g1513029; PIDN:BAAL1908.1; PID:g151
A:Experimental source: breast muscle
C:Keywords: skeletal muscle

Query Match 10.1%; Score 230.5; DB 2; Length 4162;
Best Local Similarity 23.9%; Pred. No. 1.4e-07;
Matches 86; Conservative 60; Mismatches 155; Indels 59; Gaps 15;

Qy 12 CAATAAAAPGRLRLRLLLLSAALIPGTGQNLFTKDVTVIEGEVATISCOVNKSD 71
Db 3453 -CIGSVTLRAPPTFVKKL-...SDTVVVGTEIELQAAVEGAQP 3491

Qy 72 SVIOLLNPRTIYFRDPRPLKDSRFQLLNFSSELKVSILTNVSIISDEGRYFCOLYTDPP 131
Db 3492 ISVLMLKDKGEII-...RESENLIWISYSENVASLKIAGNAEPTNAGYICQIKNDAG 3543

Qy 132 -QSEYTTITVLVPRNLMDIQKTAVE-...GEEIEVNCAMASKPATTIRWPKGNTELK 187
Db 3544 FQECFALTVLEP-...AVIVEKPGPVKVTAGDSCTLECT-VDTPTLTAARWFKDGNELS 3598

Qy 188 GKSEVEWSDMYTTSQMLMKVHKHEDG-...VPVICQVEHPAVTGNLQ-TQRYLEVQYKP 243
Db 3599 TDHKY-KISFNVKVSGLKILNAGLEDSGEVTFEVKNSVGKSSCTASLQVSDRIMPSPFTR 3657

Qy 244 QVHIQMTYPLQGLTREGDALELTCEAIGKQPQVWVTVVRVDDDEMPQ-...HAVLSGP--N 297
Db 3658 K--LKETY-...GQLGSSAVLECKVYGPSP-PILVSWFHDGQEITSGDKYQATLTDNTCS 3709

Qy 298 LFINLNKTDNGTVRCASNIIVGKAHSDYMLYVYDDPTTI-...PPPTTTTTTTTTTTTTIL 355
Db 3710 LKVNGLQESDNGTYSCTATNVAGSDECSAFLSVREPPSFVKKPEPFNVLSGENITFTSIV 3769

RESULT 15
I56551
neurotrimin - rat
C:Species: Rattus norvegicus (Norway rat)
C>Date: 26-Jul-1996 #sequence_revision 26-Jul-1996 #text_change 09-Jul-2004
C:Accession: I56551
R:Struyk, A.F.; Canoll, P.D.; Wolfgang, M.J.; Rosen, C.L.; D'Eustachio, P.; Salzer, J.L.
J. Neurosci. 15, 2141-2156, 1995
A:Title: Cloning of neurotrimin defines a new subfamily of differentially expressed neur
A:Reference number: I56551; MUID:95198094; PMID:7891157
A:Accession: I56551
A:Status: preliminary; translated from GB/EMBL/DBJ
A:Molecule type: mRNA
A:Residues: 1-344 <RES>
A:Cross-references: UNIPROT:Q62718; EMBL:U16845; NID:g755184; PIDN:AAAC7445.1; PID:g7551

C;Superfamily: carcinoembryonic antigen; carcinoembryonic antigen precursor amino-termin
Query Match 10.1%; Score 230; DB 2; Length 344;
Best Local Similarity 26.2%; Pred. No. 6e-09;
Matches 84; Conservative 53; Mismatches 137; Indels 46; Gaps 14;

Qy 29 LLLLFSAALIPGTGQNLFTK-...DVTVIEGEVATISCOVNKSDSDSVIOLLNPNRQTI- 84
Db 19 LRLFLVPTGVPVRSGDATFPKANDVTVVRQGSATLRCTI-...DNRVTVRAWLNRSTIL 75

Qy 85 YFRDRLPKDSRFQLLNFSSELKVSILTNVSIISDEGRYFCOLYTD-PPQESYTTITTVLVP 143
Db 76 YAGNDKWCLEDPRVLLSNTQTQYSIEIQNVVDVDEGPTCSVQTDNHPKTSRVHLIVQVS 135

Qy 144 PRNLMDIQKTAVE-EGEEIEVNCAMASKPATTIRWFKGNTELKKGKSEVEWSDMYT 202
Db 136 PK--IVEISSDISINEGNNISLTCIA-TGRPEPTVTVRRHISPRKAVGFVSDEYLEIQGIT 192

Qy 203 SOLMLKVH-...KEDDGVPIVCQVEHPAVTGNLQTRYLEVQYKPVHIQMTYPLQGL-TR 258
Db 193 REGSGEVECSASNDVAAPVVRVN-...VTVNYPPYIS-...EAKGTGVP 234

Qy 259 EGDALSLTCEAIGKQPQVWVTVVRVDDDEMPQ-...HAVLSGPNLFINLNKTDNG 309
Db 235 VGQKGTILQCEASAVPS-ABEQWFKDDKRLVEGKKGKVENRPFSLRLTFF--NVSEHDYG 291

Qy 310 TYRCEASNIIVGKAHSDYMLY 329
Db 292 NYTCVASNKLGHNTNASIMLF 311

Search completed: June 28, 2005, 09:54:45
Job time : 28.0601 secs

THIS PAGE BLANK (SP10)


```

QY 361 SRAGEGSIKAVDHAVIGGVAVVVFAMLCILLIILGRYFARHKGTYFTHEAKGADDA 420
DB 361 SRAGEGSIKAVDHAVIGGVAVVVFAMLCILLIILGRYFARHKGTYFTHEAKGADDA 420

QY 421 DTAIINAEQGNNSSEKKEYFI 442
DB 421 DTAIINAEQGNNSSEKKEYFI 442

RESULT 2
Q8R4L1 ID Q8R4L1 PRELIMINARY; PRT; 445 AA.
AC Q8R4L1;
DT 01-JUN-2002 (T-EMBLrel. 21, Created)
DT 01-JUN-2002 (T-EMBLrel. 21, Last sequence update)
DT 01-OCT-2003 (T-EMBLrel. 25, Last annotation update)
DE Tumor suppressor in lung cancer 1.
GN Names=Igsf4a;
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=129/SVJ;
RX MEDLINE=2226620; PubMed=12242005; DOI=10.1016/S0378-1119(02)00835-1;
RA Fukami T., Satoh H., Fujita E., Maruyama T., Fukuhara H.,
RA Kuramochi M., Takamoto S., Momoi T., Murakami Y.;
RT "Identification of the Tslc1 gene, a mouse orthologue of the human
RL tumor suppressor TSLC1 gene.";
DR EMBL; AF434663; AAL86736.1; -.
DR MGD; MGI:1889272; Igsf4a.
DR GO; GO:0016021; C:integral to membrane; TAS.
DR GO; GO:0045202; C:synapse; IDA.
DR GO; GO:0008021; C:synaptic vesicle; IDA.
DR GO; GO:0005515; F:protein binding; IPI.
DR GO; GO:0016338; P:calcium-independent cell-cell adhesion; IDA.
DR GO; GO:0007155; P:cell adhesion; IDA.
DR GO; GO:0007416; P:synaptogenesis; IDA.
DR InterPro; IPR007110; Ig-like.
DR InterPro; IPR003598; Ig_c2.
DR Pfam; PF00047; ig; 2.
DR SMART; SM00294; 4.1m; 1.
DR SMART; SM00408; IGC2; 1.
DR PROSITE; PS50835; IG_LIKE; 3.
SQ SEQUENCE 445 AA; 48664 MW; C5D5A070DAF70B55 CRC64;

Query Match 98.2%; Score 2241.5; DB 2; Length 445;
Best Local Similarity 98.0%; Pred. No. 1.2e-151;
Matches 436; Conservative 1; Mismatches 5; Indels 3; Gaps 1;

QY 1 MASVLPSPGSCQAAA---AAAAAPPGLRLRLRLRLRLRLSAALIPGTGQNLFTKDVTVIEG 57
DB 1 MASVLPSPGSCQAAA---AAAAAPPGLRLRLRLRLRLRLSAALIPGTGQNLFTKDVTVIEG 60

QY 58 EVATISQVKNKSDSVQLLNPNRQTYFRDPRPLKDSRFLNFSSELKSLTNSVIS 117
DB 61 EVATISQVKNKSDSVQLLNPNRQTYFRDPRPLKDSRFLNFSSELKSLTNSVIS 120

QY 118 DEGRYFCQLYTDPQESYTTITVLVPPRNLMDIQKDTAVEGEIEVNCCTAMASKPATTTI 177
DB 121 DEGRYFCQLYTDPQESYTTITVLVPPRNLMDIQKDTAVEGEIEVNCCTAMASKPATTTI 180

QY 178 RWFKGNTELKSGSEVEWSDMYTTSQMLKVHKEDDGVPIQCVHEPAVTGNLQYRL 237
DB 181 RWFKGNTELKSGSEVEWSDMYTTSQMLKVHKEDDGVPIQCVHEPAVTGNLQYRL 240

QY 238 EVQYKQVHIVQMTYPLQGLTREGDALELTCEATGKQPVMVTVRVDDEPQHAVLSGPN 297
DB 241 EVQYKQVHIVQMTYPLQGLTREGDALELTCEATGKQPVMVTVRVDDEPQHAVLSGPN 300

```

```

QY 298 LFNNLNKTDNGTYRCEASNIYVKAHSDYMLVYVDPPTIPPTTTTTTTTTTTTTILTI 357
DB 301 LFNNLNKTDNGTYRCEASNIYVKAHSDYMLVYVDPPTIPPTTTTTTTTTTTTTILTI 360

QY 358 ITDSRAGEGSIKAVDHAVIGGVAVVVFAMLCILLIILGRYFARHKGTYFTHEAKGADDA 417
DB 361 ITDSRAGEGSIKAVDHAVIGGVAVVVFAMLCILLIILGRYFARHKGTYFTHEAKGADDA 420

QY 418 ADADTAIINAEQGNNSSEKKEYFI 442
DB 421 ADADTAIINAEQGNNSSEKKEYFI 445

RESULT 3
Q8K3T6 ID Q8K3T6 PRELIMINARY; PRT; 445 AA.
AC Q8K3T6;
DT 01-OCT-2002 (T-EMBLrel. 22, Created)
DT 01-OCT-2002 (T-EMBLrel. 22, Last sequence update)
DT 25-OCT-2004 (T-EMBLrel. 28, Last annotation update)
DE Synaptic cell adhesion molecule 1 (RA175 isoform c).
GN Names=Igsf4a; Synonyms=RA175;
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=C57BL/6J;
RX MEDLINE=22192378; PubMed=12202822; DOI=10.1126/science.1072356;
RA Biederer T., Sara Y., Mozhayeva M., Atasoy D., Liu X., Kavalali E.T.,
RA Sudhof T.C.;
RT "SynCAM, a Synaptic Adhesion Molecule That Drives Synapse Assembly.";
RL Science 297:1525-1531(2002).
RN [2]
RP SEQUENCE FROM N.A.
RA Fujita E., Aikawa K., Momoi T.;
RL Submitted (JUL-2004) to the EMBL/GenBank/DBJ databases.
DR EMBL; AF539424; AAN01614.1; -.
DR EMBL; AB183399; BAD30018.1; -.
DR MGD; MGI:1889272; Igsf4a.
DR GO; GO:0016021; C:integral to membrane; TAS.
DR GO; GO:0045202; C:synapse; IDA.
DR GO; GO:0008021; C:synaptic vesicle; IDA.
DR GO; GO:0005515; F:protein binding; IPI.
DR GO; GO:0016338; P:calcium-independent cell-cell adhesion; IDA.
DR GO; GO:0007155; P:cell adhesion; IDA.
DR GO; GO:0007416; P:synaptogenesis; IDA.
DR InterPro; IPR007110; Ig-like.
DR InterPro; IPR003598; Ig_c2.
DR Pfam; PF00047; ig; 2.
DR SMART; SM00294; 4.1m; 1.
DR SMART; SM00408; IGC2; 1.
DR PROSITE; PS50835; IG_LIKE; 3.
SQ SEQUENCE 445 AA; 48666 MW; 5B336F23F1877497 CRC64;

Query Match 97.8%; Score 2232.5; DB 2; Length 445;
Best Local Similarity 97.5%; Pred. No. 5.2e-151;
Matches 434; Conservative 2; Mismatches 6; Indels 3; Gaps 1;

QY 1 MASVLPSPGSCQAAA---AAAAAPPGLRLRLRLRLRLSAALIPGTGQNLFTKDVTVIEG 57
DB 1 MASVLPSPGSCQAAA---AAAAAPPGLRLRLRLRLRLSAALIPGTGQNLFTKDVTVIEG 60

QY 58 EVATISQVKNKSDSVQLLNPNRQTYFRDPRPLKDSRFLNFSSELKSLTNSVIS 117
DB 61 EVATISQVKNKSDSVQLLNPNRQTYFRDPRPLKDSRFLNFSSELKSLTNSVIS 120

QY 118 DEGRYFCQLYTDPQESYTTITVLVPPRNLMDIQKDTAVEGEIEVNCCTAMASKPATTTI 177
DB 121 DEGRYFCQLYTDPQESYTTITVLVPPRNLMDIQKDTAVEGEIEVNCCTAMASKPATTTI 180

```

```

Qy 178 RWFKNTELKSGSEVEWSDMYTTSQMLKVKHKEDDGPVVICQVEHPAVTGNLQTOYRL 237
Db 181 RWFKNKELKSGSEVEWSDMYTTSQMLKVKHKEDDGPVVICQVEHPAVTGNLQTOYRL 240
Qy 238 EVQYKPOVHIQMTYPLQGLTREGDALELTCEAIGKQPQVMVTVRVDDEMPQHAVLSGPN 297
Db 241 EVQYKPOVHIQMTYPLQGLTREGDALELTCEAIGKQPQVMVTVRVDDEMPQHAVLSGPN 300
Qy 298 LFNNLNKNTDNGTYRCEASNIQVKAHSDYMLVYVDPPTTIPPPPTTTTTTTTTTTTTILTI 357
Db 301 LFNNLNKNTDNGTYRCEASNIQVKAHSDYMLVYVDPPTTIPPPPTTTTTTTTTTTTTILTI 360
Qy 358 ITDSRAGEEGSIRAVDHAVIGGVAVVVFAMCLLLIILGRYFARHKGTYTTHAEKAGGADDA 417
Db 361 ITDSRAGEEGTIGAVDHAVIGGVAVVVFAMCLLLIILGRYFARHKGTYTTHAEKAGGADDA 420
Qy 418 ADADTAIINAEAGGQNNSEKKEYFI 442
Db 421 ADADTAIINAEAGGQNNSEKKEYFI 445

RESULT 4
Q8R5M8
ID Q8R5M8 PRELIMINARY; PRT; 456 AA.
AC Q8R5M8
DT 01-JUN-2002 (TrEMBLrel. 21, Created)
DT 01-JUN-2002 (TrEMBLrel. 21, Last sequence update)
DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
DE RA175.
GN Name=Igsf4a; Synonyms=RA175;
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=22683149; PubMed=12799182; DOI=10.1016/S0014-4827(03)00095-8;
RA Fujita E., Soyama A., Momoi T.;
RT "RA175, which is the mouse ortholog of TSLC1, a tumor suppressor gene
RT in human lung cancer, is a cell adhesion molecule.";
RL Exp. Cell Res. 287:57-66(2003).
DR ENBL; AB064265; BAB3501.2; -.
DR MGD; MGI:1889272; Igsf4a.
DR GO; GO:0016021; C:integral to membrane; TAS.
DR GO; GO:0045202; C:synapse; IDA.
DR GO; GO:0008021; C:synaptic vesicle; IDA.
DR GO; GO:0005515; F:protein binding; IPI.
DR GO; GO:0016338; P:calcium-independent cell-cell adhesion; IDA.
DR GO; GO:0007155; P:cell adhesion; IDA.
DR GO; GO:0007416; P:synaptogenesis; IDA.
DR InterPro; IPR007110; Ig-like.
DR InterPro; IPR003585; Ig c2.
DR InterPro; IPR003585; Neurxin-like.
DR Pfam; PF00047; Ig; 2.
DR SMART; SM00294; 4.1m; 1.
DR SMART; SM00408; IGC2; 1.
DR PROSITE; PS50835; IG_LIKE; 3.
SQ SEQUENCE 456 AA; 49787 MW; 3226E866A4BC1C7F CRC64;

Query Match 97.3%; Score 2221; DB 2; Length 456;
Best Local Similarity 95.4%; Pred. No. 3.6e-150;
Matches 435; Conservative 2; Mismatches 5; Indels 14; Gaps 2;

Qy 1 MASVLPSSGSOCAAA---AAAAAPPGRLRLRLLLLPFAAALIPGDCGNLFTKDVTVIEG 57
Db 1 MASVLPSSGSOCAAAVAAVAAAPPGRLRLRLLLLPFAAALIPGDCGNLFTKDVTVIEG 60
Qy 58 EVATISQVKNKSDSDSVIQLLNPNRTIYFRDFRLPKDSRFQLNPFSSSELKVSILTNVIS 117
Db 61 EVATISQVKNKSDSDSVIQLLNPNRTIYFRDFRLPKDSRFQLNPFSSSELKVSILTNVIS 120
Qy 118 DEGRYFCQLYTDPPQESYTTITLVLPNRLMIDIQDTAVEGEEIEVNCNTAMASKPATI 177

```

RESULT 5

```

Q6AYP5
ID Q6AYP5 PRELIMINARY; PRT; 476 AA.
AC Q6AYP5
DT 25-OCT-2004 (TrEMBLrel. 28, Created)
DT 25-OCT-2004 (TrEMBLrel. 28, Last sequence update)
DT 25-OCT-2004 (TrEMBLrel. 28, Last annotation update)
DE Hypothetical protein.
OS Rattus norvegicus (Rat).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.
OX NCBI_TaxID=10116;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=Testis;
RX PubMed=12477932; DOI=10.1073/pnas.242603899;
RA Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
RA Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,
RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Heide F.,
RA Diatchenko L., Marusina K., Farmer A.A., Casavant T.L., Scheetz T.E.,
RA Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
RA Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,
RA Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
RA Villalón D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
RA Fahy J., Helton E., Kettelman M., Madan A., Rodriguez S., Sanchez A.,
RA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
RA Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,
RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M., Butlerfield Y.S.,
RA Krzywinski M.I., Skalska U., Smallus D.E., Schnerk A., Schein J.E.,
RA Jones S.J., Marra M.A.;
RT "Generation and initial analysis of more than 15,000 full-length human
RT and mouse cDNA sequences";
RL Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).
RN [2]
RP SEQUENCE FROM N.A.
RC TISSUE=Testis;
RA Director MGC Project;
RL Submitted (AUG-2004) to the EMBL/GenBank/DBJ databases.
DR ENBL; BC078966; AAH78966.1; -.
DR InterPro; IPR003599; Ig.
DR InterPro; IPR007110; Ig-like.
DR InterPro; IPR003598; Ig_c2.
DR Pfam; PF00047; Ig; 3.
DR SMART; SM00409; IG; 3.
DR SMART; SM00408; IGC2; 3.
DR PROSITE; PS50835; IG_LIKE; 3.

```



```
Db 1 MASAVLPSGSCAAAAA... 117
Qy 58 EVATISQVKNKSDSVIQLNPNRQTIYFRDPLKDSRFQLLNFSSSELKVSILTNVSI 117
Db 61 EVATISQVKNKSDSVIQLNPNRQTIYFRDPLKDSRFQLLNFSSSELKVSILTNVSI 120
Qy 118 DEGRYFCOLYTDPPQESYTTITVLVPPRNLMDIQTAVAGEBIEVNCAMASKPATI 177
Db 121 DEGRYFCOLYTDPPQESYTTITVLVPPRNLMDIQTAVAGEBIEVNCAMASKPATI 180
Qy 178 RWFKNTELKSGSEVEWSDMYTTSQMLKVKHEDDGVVPCQVEHPAVTGNLQORYL 237
Db 181 RWFKNTELKSGSEVEWSDMYTTSQMLKVKHEDDGVVPCQVEHPAVTGNLQORYL 240
Qy 238 EVQYKPOVHIQMTYPLQGLTREGDALELTCEAIKGPQVVMVTVRVDDEMPQHAVLSGPN 297
Db 241 EVQYKPOVHIQMTYPLQGLTREGDALELTCEAIKGPQVVMVTVRVDDEMPQHAVLSGPN 300
Qy 298 LFINLNKNTDNGTYRCEASNIQVKAHSDYMLVYVDPPTTIPPTTTTTTTTTTTTTI 357
Db 301 LFINLNKNTDNGTYRCEASNIQVKAHSDYMLVYD-----TTATTEPA 343
Qy 358 ITDSRAGEEGSIRAVDHAVIGGVVAVVVFAMLCILIIILGRYFARHKGTYFTHEAKGADDA 417
Db 344 VHSRAGEEGTIGAVDHAVIGGVVAVVVFAMLCILIIILGRYFARHKGTYFTHEAKGADDA 403
Qy 418 ADADTAIINAEGGQNNSEKKEYFI 442
Db 404 ADADTAIINAEGGQNNSEKKEYFI 428

RESULT 8
Q7TNL1
ID Q7TNL1 PRELIMINARY; PRT; 417 AA.
AC Q7TNL1
DT 01-OCT-2003 (Tremblrel. 25, Created)
DT 25-OCT-2004 (Tremblrel. 28, Last sequence update)
DE Nectin-like molecule 2 (RA175 isoform d).
GN Name=RA175;
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RC STRAIN=C57BL/6; TISSUE=Brain;
RX MEDLINE=22841094; PubMed=12826663; DOI=10.1074/jbc.M305387200;
RA Shingai T., Ikeda W., Kakunaga S., Morimoto K., Takekuni K., Itoh S.,
RA Satoh K., Takeuchi M., Imai T., Monden M., Takai Y.;
RT 2/IGSP4/RA175/SGISGF/TSLC1/SyncM1 in cell-cell adhesion and
RT transmembrane protein localization in epithelial cells.;
RL J. Biol. Chem. 278.35421-35427(2003).
RN [2]
RN SEQUENCE FROM N.A.
RA Fujita E., Aikawa K., Momoi T.;
RL Submitted (JUL-2004) to the EMBL/GenBank/DBJ databases.
DR EMBL; AY351388; AA002381.1; -
DR EMBL; AB183401; BA030020.1; -
DR GO; GO:0016021; C:integral to membrane; TAS.
DR GO; GO:0045202; C:synapse; IDA.
DR GO; GO:0008021; C:synaptic vesicle; IDA.
DR GO; GO:0005515; F:protein binding; IPI.
DR GO; GO:0016338; P:calcium-independent cell-cell adhesion; IDA.
DR GO; GO:0007135; P:cell adhesion; IDA.
DR GO; GO:0007416; P:synaptogenesis; IDA.
DR InterPro; IPR007110; IG-like.
DR InterPro; IPR003598; IG c2.
DR InterPro; IPR003585; Neurexin-like.
DR Pfam; PF00047; ig; 2.
DR SMART; SM00294; 4.1m; 1.
```

```
DR SMART; SM00408; IGC2; 1.
DR PROSITE; PS00835; IG_LIKE; 3.
SQ SEQUENCE 417 AA; 45779 MW; 98500180D37845C2 CRC64;

Query Match
Best Local Similarity 90.7%; Score 2071.5; DB 2; Length 417;
Matches 408; Conservative 1; Mismatches 5; Indels 31; Gaps 2;

Qy 1 MASVLPSSGSCAAAAA... 60
Db 1 MASVLPSSGSCAAAAA... 60
Qy 58 EVATISQVKNKSDSVIQLNPNRQTIYFRDPLKDSRFQLLNFSSSELKVSILTNVSI 117
Db 61 EVATISQVKNKSDSVIQLNPNRQTIYFRDPLKDSRFQLLNFSSSELKVSILTNVSI 120
Qy 118 DEGRYFCOLYTDPPQESYTTITVLVPPRNLMDIQTAVAGEBIEVNCAMASKPATI 177
Db 121 DEGRYFCOLYTDPPQESYTTITVLVPPRNLMDIQTAVAGEBIEVNCAMASKPATI 180
Qy 178 RWFKNTELKSGSEVEWSDMYTTSQMLKVKHEDDGVVPCQVEHPAVTGNLQORYL 237
Db 181 RWFKNTELKSGSEVEWSDMYTTSQMLKVKHEDDGVVPCQVEHPAVTGNLQORYL 240
Qy 238 EVQYKPOVHIQMTYPLQGLTREGDALELTCEAIKGPQVVMVTVRVDDEMPQHAVLSGPN 297
Db 241 EVQYKPOVHIQMTYPLQGLTREGDALELTCEAIKGPQVVMVTVRVDDEMPQHAVLSGPN 300
Qy 298 LFINLNKNTDNGTYRCEASNIQVKAHSDYMLVYVDPPTTIPPTTTTTTTTTTTTTI 357
Db 301 LFINLNKNTDNGTYRCEASNIQVKAHSDYMLYV----- 334
Qy 358 ITDSRAGEEGSIRAVDHAVIGGVVAVVVFAMLCILIIILGRYFARHKGTYFTHEAKGADDA 417
Db 335 --DSRAGEEGTIGAVDHAVIGGVVAVVVFAMLCILIIILGRYFARHKGTYFTHEAKGADDA 392
Qy 418 ADADTAIINAEGGQNNSEKKEYFI 442
Db 393 ADADTAIINAEGGQNNSEKKEYFI 417

RESULT 9
Q86WB8
ID Q86WB8 PRELIMINARY; PRT; 333 AA.
AC Q86WB8;
DT 01-JUN-2003 (Tremblrel. 24, Created)
DT 01-JUN-2003 (Tremblrel. 24, Last sequence update)
DT 01-MAR-2004 (Tremblrel. 26, Last annotation update)
DE Secretory isoform of TSLC-1.
GN Name=STSLC-1;
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RN SEQUENCE FROM N.A.
RC TISSUE=Lung;
RA Ito A., Koma Y., Nagano T.;
RL Submitted (OCT-2002) to the EMBL/GenBank/DBJ databases.
DR EMBL; AB094146; BAC66178.1; -
DR InterPro; IPR007110; IG-like.
DR InterPro; IPR003598; IG_c2.
DR Pfam; PF00047; ig; 2.
DR SMART; SM00408; IGC2; 1.
DR PROSITE; PS00835; IG_LIKE; 3.
SQ SEQUENCE 333 AA; 36915 MW; D7C1102F46D08492 CRC64;

Query Match
Best Local Similarity 75.1%; Score 1715; DB 2; Length 333;
Matches 331; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MASVLPSSGSCAAAAA... 60
```

```

Db 1 MASVLPSSGQCAAAAAAPPGLRLRLLLLSAALIPFGDQNLFTKDVTVIEGEVA 60
QY 61 TISQVKNKSDSVIQLNPNRQTIYFRDPLKDSRFQLLNFSSELKVLSTNVISDEG 120
Db 61 TISQVKNKSDSVIQLNPNRQTIYFRDPLKDSRFQLLNFSSELKVLSTNVISDEG 120
QY 121 RYFCQLYTDPQBSYTTITVLVPPRNLMIDIQKDTAVEGEIEVNCVTAMASKPATIRWF 180
Db 121 RYFCQLYTDPQBSYTTITVLVPPRNLMIDIQKDTAVEGEIEVNCVTAMASKPATIRWF 180
QY 181 KGNTELKKGKSEVEWSDMYTTSQMLKVHKEDDGVPIQCVHEHPAVTGNLQRYLEVQ 240
Db 181 KGNTELKKGKSEVEWSDMYTTSQMLKVHKEDDGVPIQCVHEHPAVTGNLQRYLEVQ 240
QY 241 YKQVHIQMTYPIQGLTREGDALELTCEALGKGPQVMVTVRVDDEMPQHAVLSGPNLFI 300
Db 241 YKQVHIQMTYPIQGLTREGDALELTCEALGKGPQVMVTVRVDDEMPQHAVLSGPNLFI 300
QY 301 NNLNKTDNGTYRCEASNIVGKAHSDYMLYYV 331
Db 301 NNLNKTDNGTYRCEASNIVGKAHSDYMLYYV 331

RESULT 10
Q80VG4
ID Q80VG4 PRELIMINARY; PRT; 336 AA.
AC Q80VG4;
DT 01-JUN-2003 (TrEMBLrel. 24, Created)
DT 01-JUN-2003 (TrEMBLrel. 24, Last sequence update)
DT 25-OCT-2004 (TrEMBLrel. 28, Last annotation update)
DE A secretion form of SgISF/TSLC1 (RA175 isoform e).
GN Name=Igsf4a; Synonyms=RA175, ssgISF/stSLC1;
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=C57BL/6J; TISSUE=Spleen cell-derived;
RX MEDLINE=99279253; PubMed=10349636; DOI=10.1016/S0076-6879(99)03004-9;
RA Ito A., Koma Y., Nagano T.;
RL Submitted (SEP-2002) to the EMBL/GenBank/DBJ databases.
RN [2]
RP SEQUENCE FROM N.A.
RA Fujita E., Aikawa K., Momoi T.;
RL Submitted (JUL-2004) to the EMBL/GenBank/DBJ databases.
DR EMBL; AB092414; BAC66173.1; -
DR EMBL; AB183402; BAD30021.1; -
DR MGD; MGI:1889272; Igsf4a.
DR GO; GO:0016021; C:integral to membrane; TAS.
DR GO; GO:0045202; C:synapse; IDA.
DR GO; GO:0008021; C:synaptic vesicle; IDA.
DR GO; GO:0005515; F:protein binding; IPI.
DR GO; GO:0016338; P:calcium-independent cell-cell adhesion; IDA.
DR GO; GO:0007155; P:cell adhesion; IDA.
DR GO; GO:0007416; P:synaptogenesis; IDA.
DR InterPro; IPR007110; Ig-like.
DR InterPro; IPR003598; Ig_c2.
DR Pfam; PF00047; Ig_2.
DR SMART; SM00408; Igc2; 1.
DR PROSITE; PS00835; IG_LIKE; 3.
SQ SEQUENCE 336 AA; 37155 MW; 9EF3D8B8BE5E8F72 CRC64;

```

```

Query Match 73.7%; Score 1683.5; DB 2; Length 336;
Best Local Similarity 97.9%; Pred. No. 5.6e-112;
Matches 327; Conservative 0; Mismatches 4; Indels 3; Gaps 1;

```

```

QY 1 MASVLPSSGQCAAAA-----AAAAAPPGLRLRLLLLSAALIPFGDQNLFTKDVTVIEG 57
Db 1 MASVLPSSGQCAAAA-----AAAAAPPGLRLRLLLLSAALIPFGDQNLFTKDVTVIEG 60
QY 58 EVATISQVKNKSDSVIQLNPNRQTIYFRDPLKDSRFQLLNFSSELKVLSTNVIS 117
Db 61 EVATISQVKNKSDSVIQLNPNRQTIYFRDPLKDSRFQLLNFSSELKVLSTNVIS 120

```

```

QY 118 DEGRYFCQLYTDPQBSYTTITVLVPPRNLMIDIQKDTAVEGEIEVNCVTAMASKPATIRWF 177
Db 121 DEGRYFCQLYTDPQBSYTTITVLVPPRNLMIDIQKDTAVEGEIEVNCVTAMASKPATIRWF 180
QY 178 RWFPGKGNTELKKGKSEVEWSDMYTTSQMLKVHKEDDGVPIQCVHEHPAVTGNLQRYLEVQ 237
Db 181 RWFPGKGNTELKKGKSEVEWSDMYTTSQMLKVHKEDDGVPIQCVHEHPAVTGNLQRYLEVQ 240
QY 238 EVQYKQVHIQMTYPIQGLTREGDALELTCEALGKGPQVMVTVRVDDEMPQHAVLSGPN 297
Db 241 EVQYKQVHIQMTYPIQGLTREGDALELTCEALGKGPQVMVTVRVDDEMPQHAVLSGPN 300
QY 298 LFTNNLNKTDNGTYRCEASNIVGKAHSDYMLYYV 331
Db 301 LFTNNLNKTDNGTYRCEASNIVGKAHSDYMLYYV 334

RESULT 11
Q9D6E7
ID Q9D6E7 PRELIMINARY; PRT; 336 AA.
AC Q9D6E7;
DT 01-JUN-2001 (TrEMBLrel. 17, Created)
DT 01-JUN-2001 (TrEMBLrel. 17, Last sequence update)
DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
DE Mus musculus adult male hippocampus cDNA, RIKEN full-length enriched
DE library, clone:2900073G06 product:immunoglobulin superfamily, member
DE 4, full insert sequence.
GN Name=Igsf4a;
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=C57BL/6J; TISSUE=Hippocampus;
RX MEDLINE=99279253; PubMed=10349636; DOI=10.1016/S0076-6879(99)03004-9;
RA Carninci P., Hayashizaki Y.;
RT "High-efficiency full-length cDNA cloning.";
RL Meth. Enzymol. 303:19-44(1999).
RN [2]
RP SEQUENCE FROM N.A.
RC STRAIN=C57BL/6J; TISSUE=Hippocampus;
RX MEDLINE=21085660; PubMed=11217851; DOI=10.1038/35055500;
RA RIKEN FANTOM Consortium;
RT "Functional annotation of a full-length mouse cDNA collection.";
RL Nature 409:685-690(2001).
RN [3]
RP SEQUENCE FROM N.A.
RC STRAIN=C57BL/6J; TISSUE=Hippocampus;
RA The FANTOM Consortium;
RA the RIKEN Genome Exploration Research Group Phase I & II Team;
RT "Analysis of the mouse transcriptome based on functional annotation of
RT 60,770 full-length cDNAs.";
RL Nature 420:563-573(2002).
RN [4]
RP SEQUENCE FROM N.A.
RC STRAIN=C57BL/6J; TISSUE=Hippocampus;
RX MEDLINE=20499374; PubMed=11042159; DOI=10.1101/gr.145100;
RA Carninci P., Shibata Y., Hayatsu N., Sugahara Y., Shibata K., Itoh M.,
RA Konno H., Okazaki Y., Muramatsu M., Hayashizaki Y.;
RT "Normalization and subtraction of cap-trapper-selected cDNAs to
RT prepare full-length cDNA libraries for rapid discovery of new genes.";
RL Genome Res. 10:1617-1630(2000).
RN [5]
RP SEQUENCE FROM N.A.
RC STRAIN=C57BL/6J; TISSUE=Hippocampus;
RX MEDLINE=20530913; PubMed=11076861; DOI=10.1101/gr.152600;
RA Shibata K., Itoh M., Aizawa K., Nagaoka S., Sasaki N., Carninci P.,
RA Konno H., Akiyama J., Nishi K., Kitsuai T., Tashiro H., Itoh M.,
RA Sumi N., Ishii Y., Nakamura S., Hazama M., Nishine T., Harada A.,
RA Yamamoto R., Matsumoto H., Sakaguchi S., Ikegami T., Kashiwagi K.,
RA Fujiwaki S., Inoue K., Togawa Y., Izawa M., Ohara E., Watahiki M.,

```

RA Yoneda Y., Ishikawa T., Ozawa K., Tanaka T., Matsura S., Kawai J.,
RA Okazaki Y., Muramatsu M., Inoue Y., Kira A., Hayashizaki Y.,
RT "RIKEN integrated sequence analysis (RISA) system-384-format
RL sequencing pipeline with 384 multicapillary sequencer.",
Genome Res. 10:1757-1771(2000).
(6).
RP SEQUENCE FROM N.A.
RC STRAIN=CS7BL/6J; TISSUE=Hippocampus;
RA Adachi J., Alzawa K., Akahira S., Akimura T., Arai A., Aono H.,
RA Arakawa T., Bono H., Carninci P., Fukuda S., Fukunishi Y., Furuno M.,
RA Hanagaki T., Hara A., Hayatsu N., Hiramoto K., Hiraoka T., Hori F.,
RA Imotani K., Ishii Y., Itoh M., Izawa M., Kasukawa T., Kato H.,
RA Kawai J., Kojima Y., Konno H., Kouda M., Koya S., Kurihara C.,
RA Matsuyama T., Miyazaki A., Nishi K., Nomura K., Numazaki R., Ohno M.,
RA Okazaki Y., Okido T., Owa C., Saito H., Saito R., Sakai C., Sakai K.,
RA Sano H., Sasaki D., Shibata K., Shibata Y., Shingawa A., Shiraki T.,
RA Segabe Y., Suzuki H., Tagami M., Tagawa A., Takahashi F., Tanaka T.,
RA Tejima Y., Toya T., Yamamura T., Yasunishi A., Yoshida K., Yoshino M.,
RA Muramatsu M., Hayashizaki Y.,
RL Submitted (JUL-2000) to the EMBL/GenBank/DBJ databases.
DR EMBL; AK013775; BAB28988.1; -.
DR MGD; MGI:1889272; Igsf4a.
DR GO; GO:0016021; C:integral to membrane; TAS.
DR GO; GO:0045202; C:synapse; IDA.
DR GO; GO:0008021; C:synaptic vesicle; IDA.
DR GO; GO:0005515; P:protein binding; IPI.
DR GO; GO:0016338; P:calcium-independent cell-cell adhesion; IDA.
DR GO; GO:0007155; P:cell adhesion; IDA.
DR InterPro; IPR007110; IG-like.
DR Pfam; PF00047; ig_2.
DR SMART; SM00408; IGC2; 1.
DR PROSITE; PS00835; IG_LIKE; 3.
SQ SEQUENCE 336 AA; 37157 MW; PF887FAFAEFD120 CRC64;
Query Match 73.2%; Score 1671.5; DB 2; Length 336;
Best Local Similarity 97.3%; Pred. No. 4e-111;
Matches 325; Conservative 0; Mismatches 6; Indels 3; Gaps 1;
QY 1 MASVLPSSGSCAAA---AAAAAPGLRLRLRLLLLSAALIPGDCQNLFKDVTVIEG 57
DB 1 MASAVLADGSCAAAATAAATAAAPPGLRLRLRLLLLSAALIPGDCQNLFKDVTVIEG 60
QY 58 EVATISCVNKSDDSVTLQNLNPNRTIYFRDPLKDSRFQLNFSSELKVSITNVSIS 117
DB 61 EVATISCVNKSDDSVTLQNLNPNRTIYFRDPLKDSRFQLNFSSELKVSITNVSIS 120
QY 118 DEGRYFCOLYDTPPQESYTTITVLVPPRNLMIDIKDQTAVEGEIEVNCNTAMASKPATI 177
DB 121 DEGRYFCOLYDTPPQESYTTITVLVPPRNLMIDIKDQTAVEGEIEVNCNTAMASKPATI 180
QY 178 RWFKNTELKSGSEVSEWSDMYTTSQMLKVKHEDDGPVICOVEHPAVTGNLQORYL 237
DB 181 RWFKNTELKSGSEVSEWSDMYTTSQMLKVKHEDDGPVICOVEHPAVTGNLQORYL 240
QY 238 EVQYKPOVHIQMTYPLQGLTREGDALELTCEAIKGPQVVMVTVRVDDEMPQHAVLSGPN 297
DB 241 EVQYKPOVHIQMTYPLQGLTREGDALELTCEAIKGPQVVMVTVRVDDEMPQHAVLSGPN 300
QY 298 LFINNLNKTNGTYRCEASINIVGKAHSDMYLVY 331
DB 301 LFINNLNKTNGTYRCEASINIVGKAHSDMYLVY 334
RESULT 12
Q92ZH8 PRELIMINARY; PRT; 295 AA.
AC Q92ZH8;
DT 01-MAY-1999 (TrEMBLrel. 10, Created)
DT 01-MAY-1999 (TrEMBLrel. 10, Last sequence update)
DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
DE Nectin-like protein 2.

GN Name=Igsf4a; Synonyms=Nec12;
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RA Zhou Y., Du G., Chen J., Yuan J., Qiang B.;
RL Submitted (APR-1998) to the EMBL/GenBank/DBJ databases.
DR EMBL; AF061260; AAC67243.1; -.
DR MGD; MGI:1889272; Igsf4a.
DR GO; GO:0016021; C:integral to membrane; TAS.
DR GO; GO:0045202; C:synapse; IDA.
DR GO; GO:0008021; C:synaptic vesicle; IDA.
DR GO; GO:0005515; P:protein binding; IPI.
DR GO; GO:0016338; P:calcium-independent cell-cell adhesion; IDA.
DR GO; GO:0007155; P:cell adhesion; IDA.
DR GO; GO:0007416; P:synaptogenesis; IDA.
DR InterPro; IPR007110; IG-like.
DR InterPro; IPR003598; IG_c2.
DR Pfam; PF00047; ig_2.
DR SMART; SM00294; 4.1m; 1.
DR PROSITE; PS00835; IG_LIKE; 2.
SQ SEQUENCE 295 AA; 32509 MW; 9DE9D86F6FF6F488 CRC64;
Query Match 66.8%; Score 1526; DB 2; Length 295;
Best Local Similarity 98.6%; Pred. No. 8.2e-101;
Matches 291; Conservative 1; Mismatches 3; Indels 0; Gaps 0;
QY 148 MIDIQDQTAVEGEIEVNCNTAMASKPATITRWFKNTELKSGSEVSEWSDMYTTSQML 207
DB 1 MIDIQDQTAVEGEIEVNCNTAMASKPATITRWFKNTELKSGSEVSEWSDMYTTSQML 60
QY 208 KVKHEDDGPVICOVEHPAVTGNLQORYLEVQYKPOVHIQMTYPLQGLTREGDALELTJC 267
DB 61 KVKHEDDGPVICOVEHPAVTGNLQORYLEVQYKPOVHIQMTYPLQGLTREGDALELTJC 120
QY 268 EAIGKPOVVMVTVRVDDEMPQHAVLSGPNLFINNLNKTNGTYRCEASINIVGKAHSDYM 327
DB 121 EAIGKPOVVMVTVRVDDEMPQHAVLSGPNLFINNLNKTNGTYRCEASINIVGKAHSDYM 180
QY 328 LYVDPPTTTPPPPTTTTTTTTTTTTTTTTTTTTTTTTTITDSRAGEEGSIRAVDHAVIGGVVAVVFA 387
DB 181 LYVDPPTTTPPPPTTTTTTTTTTTTTTTTTTTTTTTTTITDSRAGEEGTICAVDHAVIGGVVAVVFA 240
QY 388 MLCLLIILGRYFAHKGTYETHEAKGADDAADATAIINAEAGGQNNSEKKEYFI 442
DB 241 MLCLLIILGRYFAHKGTYETHEAKGADDAADATAIINAEAGGQNNSEKKEYFI 295
RESULT 13
Q9QYL4 PRELIMINARY; PRT; 306 AA.
AC Q9QYL4;
DT 01-MAY-2000 (TrEMBLrel. 13, Created)
DT 01-MAY-2000 (TrEMBLrel. 13, Last sequence update)
DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
DE Adhesion protein RAI75C.
GN Name=Igsf4a; Synonyms=rai75c;
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=22683149; PubMed=12799182; DOI=10.1016/S0014-4827(03)00095-8;
RA Fujita E., Soyama A., Momoi T.;
RT "RAI75, which is the mouse ortholog of TSLC1, a tumor suppressor gene
RT in human lung cancer, is a cell adhesion molecule.";
RL Exp. Cell Res. 287:57-66(2003).
DR EMBL; AB021966; BAA87916.1; -.
Q9QYL4

DR MGD; MGI:1889272; Igsf4a.
DR GO; GO:0016021; C:integral to membrane; TAS.
DR GO; GO:0045202; C:synapse; IDA.
DR GO; GO:0008021; C:synaptic vesicle; IDA.
DR GO; GO:0005151; F:protein binding; IPI.
DR GO; GO:0016338; P:calcium-independent cell-cell adhesion; IDA.
DR GO; GO:0007155; P:cell adhesion; IDA.
DR GO; GO:0007416; P:synaptogenesis; IDA.
DR InterPro; IPR007110; Ig_c2.
DR InterPro; IPR003598; Neurexin-like.
DR Pfam; PF00047; Ig; 1.
DR SMART; SM00294; 4.1m; 1.
DR SMART; SM00408; IGC2; 1.
DR PROSITE; PS0835; IG LIKE; 2.
SQ SEQUENCE 306 AA; 33522 MW; A4CE37B0F23554D5 CRC64;

Query Match 65.9%; Score 1503.5; DB 2; Length 306;
Best Local Similarity 94.8%; Pred. No. 3.5e-99;
Matches 290; Conservative 2; Mismatches 3; Indels 11; Gaps 1;

QY 148 MIDIQKDTAVEGEIEVNCCTAMASKPATTIRWFKGNTELKKGKSEVEWSDMYTTSQML 207
Db 1 MIDIQKDTAVEGEIEVNCCTAMASKPATTIRWFKGNTELKKGKSEVEWSDMYTTSQML 60

QY 208 KVHKEDDGVPIQVEHPAVTGNLQRYLEYQVKPVHQMTPYPLQGLTREGDALELTC 267
Db 61 KVHKEDDGVPIQVEHPAVTGNLQRYLEYQVKPVHQMTPYPLQGLTREGDALELTC 120

QY 268 EAIGKQPQVWTVVRVDDENPQHVLGSPNLFNNLNKTDNGTYRCEASNVGKAHSDYM 327
Db 121 EAIGKQPQVWTVVRVDDENPQHVLGSPNLFNNLNKTDNGTYRCEASNVGKAHSDYI 180

QY 328 LYVYDPTTIPPPPTTT 376
Db 181 LYVYDPTTIPPPPTTT 240

QY 377 IGGVAVVVFAMLCIIILGRYFARHKGTFTHEAKGADDAADATTAIINAEQGNNSEE 436
Db 241 IGGVAVVVFAMLCIIILGRYFARHKGTFTHEAKGADDAADATTAIINAEQGNNSEE 300

QY 437 KKEYFI 442
Db 301 KKEYFI 306

RESULT 14
Q9QYL6 PRELIMINARY; PRT; 295 AA.
AC Q9QYL6
DT 01-MAY-2000 (TrEMBLrel. 13, Created)
DT 01-MAY-2000 (TrEMBLrel. 13, Last sequence update)
DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
DE Adhesion protein RAI75A.
GN Name=igsf4a; Synonyms=ral75a;
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
OC Mammalia; Euthera; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=22683149; PubMed=12799182; DOI=10.1016/S0014-4827(03)00095-8;
RA Fujita E., Soyama A., Momoi T.;
RT "RAI75, which is the mouse ortholog of TSLC1, a tumor suppressor gene
in human lung cancer, is a cell adhesion molecule.";
RL Exp. Cell Res. 287:57-66(2003).
DR EMBL; AB021964; BAA87914.1; -.
DR MGD; MGI:1889272; Igsf4a.
DR GO; GO:0016021; C:integral to membrane; TAS.
DR GO; GO:0045202; C:synapse; IDA.
DR GO; GO:0008021; C:synaptic vesicle; IDA.
DR GO; GO:0005151; F:protein binding; IPI.
DR GO; GO:0016338; P:calcium-independent cell-cell adhesion; IDA.
DR GO; GO:0007155; P:cell adhesion; IDA.
DR InterPro; IPR007110; Ig-like.
DR InterPro; IPR003598; Neurexin-like.
DR Pfam; PF00047; ig; 1.
DR SMART; SM00294; 4.1m; 1.
DR SMART; SM00408; IGC2; 1.
DR PROSITE; PS0835; IG LIKE; 2.
SQ SEQUENCE 289 AA; 31811 MW; 8D1B836D0565A6A4 CRC64;

DR GO; GO:0007155; P:cell adhesion; IDA.
DR GO; GO:0007416; P:synaptogenesis; IDA.
DR InterPro; IPR007110; Ig-like.
DR InterPro; IPR003598; Ig_c2.
DR InterPro; IPR003585; Neurexin-like.
DR Pfam; PF00047; ig; 1.
DR SMART; SM00294; 4.1m; 1.
DR SMART; SM00408; IGC2; 1.
DR PROSITE; PS0835; IG LIKE; 2.
SQ SEQUENCE 295 AA; 32347 MW; FDD9E8145C6B971B CRC64;

Query Match 65.0%; Score 1483; DB 2; Length 295;
Best Local Similarity 95.9%; Pred. No. 9.7e-98;
Matches 283; Conservative 3; Mismatches 9; Indels 0; Gaps 0;

QY 148 MIDIQKDTAVEGEIEVNCCTAMASKPATTIRWFKGNTELKKGKSEVEWSDMYTTSQML 207
Db 1 MIDIQKDTAVEGEIEVNCCTAMASKPATTIRWFKGNTELKKGKSEVEWSDMYTTSQML 60

QY 208 KVHKEDDGVPIQVEHPAVTGNLQRYLEYQVKPVHQMTPYPLQGLTREGDALELTC 267
Db 61 KVHKEDDGVPIQVEHPAVTGNLQRYLEYQVKPVHQMTPYPLQGLTREGDALELTC 120

QY 268 EAIGKQPQVWTVVRVDDENPQHVLGSPNLFNNLNKTDNGTYRCEASNVGKAHSDYM 327
Db 121 EAIGKQPQVWTVVRVDDENPQHVLGSPNLFNNLNKTDNGTYRCEASNVGKAHSDYI 180

QY 328 LYVYDPTTIPPPPTTT 387
Db 181 LYVYDPTTIPPPPTTT 240

QY 388 MLCIIILGRYFARHKGTFTHEAKGADDAADATTAIINAEQGNNSEEKEYFI 442
Db 241 MLCIIILGRYFARHKGTFTHEAKGADDAADATTAIINAEQGNNSEEKEYFI 295

RESULT 15
Q9QYL5 PRELIMINARY; PRT; 289 AA.
AC Q9QYL5
DT 01-MAY-2000 (TrEMBLrel. 13, Created)
DT 01-MAY-2000 (TrEMBLrel. 13, Last sequence update)
DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
DE Adhesion protein RAI75B.
GN Name=igsf4a; Synonyms=ral75b;
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Euthera; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=22683149; PubMed=12799182; DOI=10.1016/S0014-4827(03)00095-8;
RA Fujita E., Soyama A., Momoi T.;
RT "RAI75, which is the mouse ortholog of TSLC1, a tumor suppressor gene
in human lung cancer, is a cell adhesion molecule.";
RL Exp. Cell Res. 287:57-66(2003).
DR EMBL; AB021965; BAA87915.1; -.
DR MGD; MGI:1889272; Igsf4a.
DR GO; GO:0016021; C:integral to membrane; TAS.
DR GO; GO:0045202; C:synapse; IDA.
DR GO; GO:0008021; C:synaptic vesicle; IDA.
DR GO; GO:0005151; F:protein binding; IPI.
DR GO; GO:0016338; P:calcium-independent cell-cell adhesion; IDA.
DR GO; GO:0007155; P:cell adhesion; IDA.
DR GO; GO:0007416; P:synaptogenesis; IDA.
DR InterPro; IPR007110; Ig-like.
DR InterPro; IPR003585; Neurexin-like.
DR Pfam; PF00047; ig; 1.
DR SMART; SM00294; 4.1m; 1.
DR SMART; SM00408; IGC2; 1.
DR PROSITE; PS0835; IG LIKE; 2.
SQ SEQUENCE 289 AA; 31811 MW; 8D1B836D0565A6A4 CRC64;

THIS PAGE BLANK (NOT FOR)

GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.

OM protein - protein search, using sw model

Run on: June 28, 2005, 09:38:22 ; Search time 118.548 Seconds
(without alignments)
1442.016 Million cell updates/sec

Title: US-10-622-237-2

Perfect score: 2283

Sequence: 1 MASVLPSSGSCQCAAAAAA.....AIIAEGGQNNSEKEYFI 442

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 2105692 seqs, 386760381 residues

Total number of hits satisfying chosen parameters: 2105692

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : A Geneseqp16Dec04:*

1: Geneseqp1980s:*

2: Geneseqp1980s:*

3: Geneseqp2000s:*

4: Geneseqp2001s:*

5: Geneseqp2002s:*

6: Geneseqp2003as:*

7: Geneseqp2003bs:*

8: Geneseqp2004s:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | DB ID | Description |
|------------|-------|-------------|--------|------------|--------------------|
| 1 | 2283 | 100.0 | 442 | 3 AAB25619 | Aab25619 Protein e |
| 2 | 2283 | 100.0 | 442 | 3 AAY94341 | Aay94341 Human cel |
| 3 | 2283 | 100.0 | 442 | 3 AAY45092 | Aay45092 Human lym |
| 4 | 2283 | 100.0 | 442 | 5 AAE19887 | Aae19887 Human tum |
| 5 | 2283 | 100.0 | 442 | 5 ABP62825 | Abp62825 Human pol |
| 6 | 2283 | 100.0 | 442 | 6 ADA27144 | Ada27144 Human nov |
| 7 | 2283 | 100.0 | 442 | 7 ADE54238 | Ade54238 Human pro |
| 8 | 2283 | 100.0 | 442 | 8 ADE86685 | Ade86685 Novel hum |
| 9 | 2280 | 99.9 | 442 | 6 ABO07196 | Ab007196 Human p53 |
| 10 | 2280 | 99.9 | 442 | 6 ABO07231 | Ab007231 Human p53 |
| 11 | 2280 | 99.9 | 442 | 7 ADE61605 | Ade61605 Human pro |
| 12 | 2280 | 99.9 | 442 | 7 ADE61608 | Ade61608 Human pro |
| 13 | 2263 | 99.1 | 440 | 2 AAY17830 | Aay17830 Human PRO |
| 14 | 2263 | 99.1 | 440 | 3 AAB01321 | Aab01321 Human PRO |
| 15 | 2263 | 99.1 | 440 | 4 AAU29040 | Aau29040 Human PRO |
| 16 | 2263 | 99.1 | 440 | 6 ABU58416 | Abu58416 Human PRO |
| 17 | 2263 | 99.1 | 440 | 6 ABU87964 | Abu87964 Novel hum |
| 18 | 2263 | 99.1 | 440 | 6 ABU84279 | Abu84279 Human sec |
| 19 | 2263 | 99.1 | 440 | 6 ABR66153 | Abr66153 Human sec |
| 20 | 2263 | 99.1 | 440 | 6 ABR65543 | Abr65543 Human sec |
| 21 | 2263 | 99.1 | 440 | 6 ABU99483 | Abu99483 Human sec |
| 22 | 2263 | 99.1 | 440 | 6 ABU55930 | Abu55930 Human sec |
| 23 | 2263 | 99.1 | 440 | 6 ABU82722 | Abu82722 Human PRO |
| 24 | 2263 | 99.1 | 440 | 6 ABU89843 | Abu89843 Novel hum |
| 25 | 2263 | 99.1 | 440 | 6 ABR68092 | Abr68092 Human sec |

ALIGNMENTS

RESULT 1

AAB25619 standard; protein; 442 AA.

XX

AC AAB25619;

XX

XX

DT 21-NOV-2000 (first entry)

XX

DE Protein encoded by human secreted protein gene #11.

XX

XX

KW Secreted protein; immunosuppressant; anti-inflammatory; antiarthritic;

KW antirheumatic; dermatological; antiproliferative; antiarteriosclerotic;

KW anticancer; vulnery; antiviral; antibacterial; antifungal;

KW immune disorder; Addison's disease; rheumatoid arthritis; dermatitis;

KW multiple sclerosis; inflammatory disorder; inflammatory bowel disease;

KW Crohn's disease; nephritis; hyperproliferative disorder;

KW cardiovascular disorder; coronary arteriosclerosis; myocarditis; cancer;

KW melanoma; lymphoma; wound healing; human.

XX Homo sapiens.

OS

XX

PN WO200029435-A1.

XX

PD 25-MAY-2000.

XX

PF 27-OCT-1999; 99WO-US025031.

XX

PR 28-OCT-1998; 98US-0105971P.

XX

PA (HUMA-) HUMAN GENOME SCI INC.

XX

PI Ni J, Ruben SM, Olsen HS, Young PE, Kenny JJ, Moore PA, Wei Y;

XX Greene JW;

DR WPI; 2000-387742/33.

XX

PT Isolated nucleic acid molecules encoding human secreted proteins are used

XX for the prevention, amelioration and treatment of autoimmune,

PT inflammatory, hyperproliferative and cardiovascular disorders, cancer,

XX wounds, and infectious diseases.

PS Disclosure; Page 182-183; 803pp; English.

XX

CC The present invention relates to 12 secreted human proteins and the

XX nucleotide sequences encoding them. The polynucleotide sequences given in

CC AAB25619-82593 encode the 12 secreted protein sequences given in

XX AAB25619-82593. The human secreted proteins have various activities

CC dependent on the tissues in which they are expressed. Examples of the

XX

XX

XX

XX

XX

XX

XX

XX

| | |
|-----------|---|
| CC | activities of the proteins include: immunosuppressant; anti-inflammatory; |
| CC | antiarthritic; antirheumatic, dermatological; antiproliferative; |
| CC | antiarteriosclerotic; anticancer; vulnery; antiviral; antibacterial; |
| CC | and antifungal activity. The proteins, polypeptides, agonists and |
| CC | antagonists may be used to treat prevent and/or diagnose various disease; |
| CC | disorders and conditions examples of which include: immune disorders e.g. |
| CC | Addison's disease, rheumatoid arthritis, dermatitis, and multiple |
| CC | sclerosis; inflammatory disorders e.g. inflammatory bowel disease, |
| CC | Crohn's disease and nephritis; hyperproliferative disorders such as |
| CC | paraproteinaemias and purpura; cardiovascular disorders e.g. coronary |
| CC | arteriosclerosis and myocarditis; cancer e.g. melanoma and lymphoma. The |
| CC | proteins and polynucleotide sequences may also be used in wound healing |
| CC | and the treatment of infectious diseases. The human secreted protein gene |
| CC | #11 and protein sequences are represented in sequences AAA80616 and |
| CC | AA825586. Sequences AAA80677-A80682 represent genes related to the |
| CC | secreted protein gene#11 |
| XX | |
| SQ | Sequence 442 AA; |
| | Query Match 100.0%; Score 2283; DB 3; Length 442; |
| | Best Local Similarity 100.0%; Pred. No. 8.3e-158; |
| | Matches 442; Conservative 0; Mismatches 0; Indels 0; Gaps 0 |
| Qy | 1 MASVVLPSGSCAAAAAAPPGLRLRLRLLLLFSAALIPITGDGQNLFTKQVTVIEGEVA 60 |
| Db | 1 MASVVLPSGSCAAAAAAPPGLRLRLRLLLLFSAALIPITGDGQNLFTKQVTVIEGEVA 60 |
| Qy | 61 TISQVNVKSDSVLTQLNPNQTIYFRDPRPLKDSRFOLLNPFSSSELKVSLTNVSISDEG 120 |
| Db | 61 TISQVNVKSDSVLTQLNPNQTIYFRDPRPLKDSRFOLLNPFSSSELKVSLTNVSISDEG 120 |
| Qy | 121 RYFQQLYTDPPQESYTTITVLVPPRNLMIDIQKOTAVEGEEIEVNCTAMASKPATTIIRWF 180 |
| Db | 121 RYFQQLYTDPPQESYTTITVLVPPRNLMIDIQKOTAVEGEEIEVNCTAMASKPATTIIRWF 180 |
| Qy | 181 KGNTELKKGKSEVEWSDMYTTSQLMLKHKEDDGVPVICQVEHPAVTGNLTQRYLEVQ 240 |
| Db | 181 KGNTELKKGKSEVEWSDMYTTSQLMLKHKEDDGVPVICQVEHPAVTGNLTQRYLEVQ 240 |
| Qy | 241 YKPQVHIQMTYPLQGLTREGDALELTCEAIGKQPQPMVTWVRVDDMPQHAVLSGPNLFI 300 |
| Db | 241 YKPQVHIQMTYPLQGLTREGDALELTCEAIGKQPQPMVTWVRVDDMPQHAVLSGPNLFI 300 |
| Qy | 301 NNLKNTDNGTVRCASNTWGAHSDYMLYVYDPTTIPPTTTTTTTTTTTTTILTIITD 360 |
| Db | 301 NNLKNTDNGTVRCASNIVGAHSDYMLYVYDPTTIPPTTTTTTTTTTTTTILTIITD 360 |
| Qy | 361 SRAGEEGSIRAVDHAVIGGVAVVVFAMLCLLIILGRYFARHKGYFTTHEAKGADDAADA 420 |
| Db | 361 SRAGEEGSIRAVDHAVIGGVAVVVFAMLCLLIILGRYFARHKGYFTTHEAKGADDAADA 420 |
| Qy | 421 DTAIINAEGGQNNSEKKEYFI 442 |
| Db | 421 DTAIINAEGGQNNSEKKEYFI 442 |
| RESULT 2 | |
| AAAY94341 | |
| ID | AAAY94341 standard; protein; 442 AA. |
| XX | |
| AC | AAAY94341; |
| DT | |
| XX | |
| DT | 22-AUG-2000 (first entry) |
| XX | |
| DE | Human cell surface receptor protein #8. |
| KW | Human; HCSR; cytostatic; antiarthritic; antirheumatic; antiasthmatic; |
| KW | immunosuppressive; antiarteriosclerotic; antibacterial; antiparasitic; |
| KW | neuroprotective; nootropic; anticonvulsant; cancer; leukaemia; melanoma; |
| KW | rheumatoid arthritis; asthma; atherosclerosis; akathisia; |
| KW | Alzheimer's diseases; multiple sclerosis; epilepsy. |
| XX | |
| OS | Homo sapiens. |

PS Claim 1; Page 81-82; 97pp; English.

XX The present sequence is a novel human cell surface receptor protein (HCSR) designated HCSR-8. The nucleotide sequence was identified in Incyte Clone 312256 from the cDNA library LUNGNOT02, which was made from RNA isolated from lung tissue. A number of Incyte Clones were used to assemble the consensus sequence. BLAST analysis showed that the sequence is homologous to immuno-superfamily protein B12 3779242. HCSR and its antagonist are useful for preventing or treating disorders associated with decreased or increased expression or activity of HCSR. Such disorders include cancers such as leukaemia and melanoma, immune disorders such as rheumatoid arthritis, asthma and atherosclerosis, bacterial and parasitic infections and neuronal disorders such as ataxia, Alzheimer's disease, multiple sclerosis and epilepsy.

CC Polynucleotides encoding HCSR may be used as hybridisation probes to diagnose these conditions. Anti-HCSR antibodies may be used as antagonists, as a targeting or delivery mechanism for bringing pharmaceutical agents into contact with cells or tissues expressing HCSR and for diagnosis of HCSR-related disorders. HCSR and its catalytic or immunogenic fragments are useful for drug screening using libraries of compounds

XX SQ Sequence 442 AA;

Query Match 100.0%; Score 2283; DB 3; Length 442;
Best Local Similarity 100.0%; Pred. No. 8.3e-158; Mismatches 0; Gaps 0;
Matches 442; Conservative 0; Indels 0;

Qy 1 MASVLPSSGSCAAAAAAPPGLRLRLLLLSAALIPGTGQNLFTKDVTVIEGEVA 60
Db 1 MASVLPSSGSCAAAAAAPPGLRLRLLLLSAALIPGTGQNLFTKDVTVIEGEVA 60

Qy 61 TISQVKNKSDSVTQLNPNRQTYFRDRPLKDSRFQNLNFSSELKVSITNVSISDEG 120
Db 61 TISQVKNKSDSVTQLNPNRQTYFRDRPLKDSRFQNLNFSSELKVSITNVSISDEG 120

Qy 121 RYFCOLYTDPPQESYTTITVLVPRNLMIDIKDQTAVEGEIEVNCCTAMASKPATIRWF 180
Db 121 RYFCOLYTDPPQESYTTITVLVPRNLMIDIKDQTAVEGEIEVNCCTAMASKPATIRWF 180

Qy 181 KGNTLKGKSEVSWSDMYTTSQMLKVKHEDDGVPICOVEHPATVGNLQORYLEVQ 240
Db 181 KGNTLKGKSEVSWSDMYTTSQMLKVKHEDDGVPICOVEHPATVGNLQORYLEVQ 240

Qy 241 YKQVHIQMTYPLQGLTRREGDALELTCEAIKQPQVMVTVRVVDDEMPQHAVLSGPNLFI 300
Db 241 YKQVHIQMTYPLQGLTRREGDALELTCEAIKQPQVMVTVRVVDDEMPQHAVLSGPNLFI 300

Qy 301 NNLKNTDNGTYRCASNIYGVKASDYMLYVYDPTTTPPPPTTTTTTTTTTTTTITD 360
Db 301 NNLKNTDNGTYRCASNIYGVKASDYMLYVYDPTTTPPPPTTTTTTTTTTTTTITD 360

Qy 361 SRAGEGSIRAVDHAVTGGVAVVAVFAMLCILILGRYFAHKGTFTFHEAKGADDAADA 420
Db 361 SRAGEGSIRAVDHAVTGGVAVVAVFAMLCILILGRYFAHKGTFTFHEAKGADDAADA 420

Qy 421 DTAIINAEAGGQNNSEKKEYFI 442
Db 421 DTAIINAEAGGQNNSEKKEYFI 442

RESULT 3
AA45092
ID AA45092 standard; protein; 442 AA.

XX AC AA45092;
XX 31-MAY-2000 (first entry)
XX Human lymphoid derived dendritic cell adhesion molecule.
XX Lymphoid derived dendritic cell adhesion molecule; LDCAM; human; B7-1;
KW B7-L1; T cell proliferation; natural killer cell; NK; tumour cell;

KW biological activity; quality control reagent; treatment; inflammation; immune system disorder; autoimmune; viral infection; infectious disease; organ transplant rejection; bone marrow; modulator; immune response.

XX Homo sapiens.

PH Key Location/Qualifiers
FT Domain 1..374 /label= Extracellular_domain
FT Peptide 1..38 /label= Leader_peptide
FT Protein 39..442 /label= Mature_human_LDCAM_polypeptide
FT Modified-site 67..69 /note= "N-Glycosylation site"
FT Modified-site 101..103 /note= "N-Glycosylation site"
FT Modified-site 113..115 /note= "N-Glycosylation site"
FT Modified-site 165..167 /note= "N-Glycosylation site"
FT Modified-site 304..306 /note= "N-Glycosylation site"
FT Modified-site 308..310 /note= "N-Glycosylation site"
FT Domain 375..395 /label= Transmembrane_domain
FT Domain 396..442 /label= Cytoplasmic_domain
W0200008158-A2.

XX 17-FEB-2000.
XX 05-AUG-1999; 99WO-US017905.
XX 07-AUG-1998; 98US-0095672P.
XX (IMMUNEX) IMMUNEX CORP.
XX Baum PR, Fanslow WC;
XX WPI; 2000-205712/18.
XX N-PSDB; AAZ50882.
XX Novel molecules designated LDCAM are capable of altering or modulating T cell function.
XX Claim 7; Page 42-43; 44pp; English.
XX The present amino acid sequence is the human lymphoid derived dendritic cell adhesion molecule, LDCAM. It is found on lymphoid derived dendritic cells and displays homology to adhesion molecules, B7-1 and cytoplasmic region of B7-L1. Human LDCAM is expressed in breast, retina, foetal liver, spleen and heart, lung, muscle, placenta, thyroid and lung carcinoma. LDCAM polypeptides interacts with T cell surface molecules to alter signalling and inhibits T cell proliferation, bind to themselves and B7L-1, an LDCAM binding protein and increases natural killer (NK) cell populations. It may be used to measure the biological activity and as quality control reagents of LDCAM binding proteins. LDCAM may be used for treating disorders associated with malfunctioning of immune system, inflammation, autoimmune disorders, viral infected cells, infectious diseases and for killing tumour cells. They are also useful for prevention or reducing the effect of organ and bone marrow transplant rejection and for modulating T cell immune responses. LDCAM polypeptides may also be used as carriers for delivering agents attached to T cells or cells bearing B7L-1

XX SQ Sequence 442 AA;
Query Match 100.0%; Score 2283; DB 3; Length 442;
Best Local Similarity 100.0%; Pred. No. 8.3e-158; Mismatches 0; Gaps 0;
Matches 442; Conservative 0; Indels 0;

QY 1 MASVLPSSGSCAAAAAAPPGLRLRLRLLLLSAAALPTGQQLFTKDVTVIEGEVA 60
DB 1 MASVLPSSGSCAAAAAAPPGLRLRLRLLLLSAAALPTGQQLFTKDVTVIEGEVA 60
QY 61 TISQVKNKSDSVIQLLNPRTIYFRDPRPLKDSRFQLNFSSSELKVSITNVSISDEG 120
DB 61 TISQVKNKSDSVIQLLNPRTIYFRDPRPLKDSRFQLNFSSSELKVSITNVSISDEG 120
QY 121 RYFCQLYTDPPQESYTTITVLVPPRNLMIDIQKDTAVEGEIEVNCCTAMASKPATIRWF 180
DB 121 RYFCQLYTDPPQESYTTITVLVPPRNLMIDIQKDTAVEGEIEVNCCTAMASKPATIRWF 180
QY 181 KGNTLKGKSEVEBSWDMYTVTSQMLKVHKEDDGVPIQVVEHPAVTGNLQRYLEVQ 240
DB 181 KGNTLKGKSEVEBSWDMYTVTSQMLKVHKEDDGVPIQVVEHPAVTGNLQRYLEVQ 240
QY 241 YKQVHIQMTYPLQGLTREGDALELTCEAIGKQPVMVTVVRVDDMPQHAVLSGNLFI 300
DB 241 YKQVHIQMTYPLQGLTREGDALELTCEAIGKQPVMVTVVRVDDMPQHAVLSGNLFI 300
QY 301 NNLNKTNGTYRCEASNIQKASNDYMLVYVDPPTTIPPTTTTTTTTTTTTTILTIITD 360
DB 301 NNLNKTNGTYRCEASNIQKASNDYMLVYVDPPTTIPPTTTTTTTTTTTTTILTIITD 360
QY 361 SRAGEGSIKAVDHAIVGGVAVVVFAMLCLLIILGRYFARHKGTFTHEAKGADDAADA 420
DB 361 SRAGEGSIKAVDHAIVGGVAVVVFAMLCLLIILGRYFARHKGTFTHEAKGADDAADA 420
QY 421 DTAINAEGGQNNSEKKEYFI 442
DB 421 DTAINAEGGQNNSEKKEYFI 442

RESULT 4

AAE19887
ID AAE19887 standard; protein; 442 AA.
AC AAE19887;
XX
XX
DT 18-JUN-2002 (first entry)
DE Human tumour suppressor lung cancer 1 (TSLC1) polypeptide.
XX
XX
KW Human; hepatocellular carcinoma; tumour suppressor lung cancer 1; TSLC1;
KW liver; lung; pancreatic cancer; cell proliferative disorder; cytostatic;
KW gene therapy.
XX
OS Homo sapiens.
XX
XX WO200214557-A1.
XX
PD 21-FEB-2002.
XX
XX 15-AUG-2001; 2001WO-US025690.
XX
XX 15-AUG-2000; 2000US-0225264P.
XX
PA (UJYO) UNIV JOHNS HOPKINS SCHOOL MEDICINE.
XX
XX Reeves RH, Yoshinori M;
XX WPI; 2002-241913/29.
XX
XX Detecting cell proliferative disorder associated with tumor suppressor
PT lung cancer (TSLC) 1 in subject, comprises contacting proliferating cell
PT of subject with reagent detecting TSLC1 and detecting modification in
PT TSLC1 level.
XX
XX Disclosure; Page 49-50; 59pp; English.
XX
XX The invention relates to a method for detecting cell proliferative
CC disorder associated with tumour suppressor lung cancer 1 (TSLC1) in a

CC subject. The method comprising contacting a cell component of a
CC proliferating cell with a reagent that detects level of the cell
CC component in the proliferating cell and determining modification in the
CC level of the cell component in proliferating cell as compared with a
CC healthy cell, where modification indicates disorder associated with
CC TSLC1. The method is useful for detecting a cell proliferative disorder
CC (e.g. liver, lung or pancreatic cancer) associated with tumour suppressor
CC lung cancer 1 (TSLC1) in a subject. The invention is useful in gene
CC therapy and for treating a cell proliferative disorder such as lung
CC cancer (human non-small cell lung cancer), liver cancer (hepatocellular
CC carcinoma) or pancreatic cancer associated with modification of TSLC1
CC production, where a reagent which modulates (preferably, increases) TSLC1
CC level in the cells, is employed. The present sequence is human TSLC1
XX
SQ Sequence 442 AA;
Query Match 100.0%; Score 2283; DB 5; Length 442;
Best Local Similarity 100.0%; Pred. No. 8.3e-158;
Matches 442; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MASVLPSSGSCAAAAAAPPGLRLRLRLLLLSAAALPTGQQLFTKDVTVIEGEVA 60
DB 1 MASVLPSSGSCAAAAAAPPGLRLRLRLLLLSAAALPTGQQLFTKDVTVIEGEVA 60
QY 61 TISQVKNKSDSVIQLLNPRTIYFRDPRPLKDSRFQLNFSSSELKVSITNVSISDEG 120
DB 61 TISQVKNKSDSVIQLLNPRTIYFRDPRPLKDSRFQLNFSSSELKVSITNVSISDEG 120
QY 121 RYFCQLYTDPPQESYTTITVLVPPRNLMIDIQKDTAVEGEIEVNCCTAMASKPATIRWF 180
DB 121 RYFCQLYTDPPQESYTTITVLVPPRNLMIDIQKDTAVEGEIEVNCCTAMASKPATIRWF 180
QY 181 KGNTLKGKSEVEBSWDMYTVTSQMLKVHKEDDGVPIQVVEHPAVTGNLQRYLEVQ 240
DB 181 KGNTLKGKSEVEBSWDMYTVTSQMLKVHKEDDGVPIQVVEHPAVTGNLQRYLEVQ 240
QY 241 YKQVHIQMTYPLQGLTREGDALELTCEAIGKQPVMVTVVRVDDMPQHAVLSGNLFI 300
DB 241 YKQVHIQMTYPLQGLTREGDALELTCEAIGKQPVMVTVVRVDDMPQHAVLSGNLFI 300
QY 301 NNLNKTNGTYRCEASNIQKASNDYMLVYVDPPTTIPPTTTTTTTTTTTTTILTIITD 360
DB 301 NNLNKTNGTYRCEASNIQKASNDYMLVYVDPPTTIPPTTTTTTTTTTTTTILTIITD 360
QY 361 SRAGEGSIKAVDHAIVGGVAVVVFAMLCLLIILGRYFARHKGTFTHEAKGADDAADA 420
DB 361 SRAGEGSIKAVDHAIVGGVAVVVFAMLCLLIILGRYFARHKGTFTHEAKGADDAADA 420
QY 421 DTAINAEGGQNNSEKKEYFI 442
DB 421 DTAINAEGGQNNSEKKEYFI 442
RESULT 5
ABP62825
ID ABP62825 standard; protein; 442 AA.
XX
XX AC ABP62825;
XX
XX DT 14-OCT-2002 (first entry)
XX DE Human polypeptide SEQ ID NO 262.
XX
KW Human; vulnary; dermatological; neuroprotective; immunosuppressive; cancer;
KW antiparkinsonian; immunostimulant; cytostatic; immunosuppressive;
KW antidiabetic; antiallergic; gene therapy; wound healing; tissue repair;
KW burn; central nervous system disorder; Alzheimer's disease;
KW Parkinson's disease; Huntington's disease; immune disorder;
KW autoimmune disorder; multiple sclerosis; diabetes; allergy.
XX
OS Homo sapiens.
XX
XX WO200218424-A2.
PN

XX 07-MAR-2002.
XX
XX
XX 31-AUG-2001; 2001WO-US027093.
XX
XX PR 01-SEP-2000; 2000US-00654935.
XX
XX PA (HYSE-) HYSEQ INC.
XX
XX Tang YT, Asundi V, Zhou P, Xue AJ, Ren F, Zhang J, Wang J;
XX Zhao QA, Wang D, Liu C, Drmanac RT, Wehrman T;
XX WPI; 2002-583321/62.
XX DR N-PSDB; ABQ93304.
XX
XX New polynucleotide and polypeptides, useful for treatment and diagnosis
XX of Alzheimer's, Parkinson's, Huntington's, amyotrophic lateral
XX sclerosis, immune deficiencies, cancer, autoimmune disorders, multiple
XX sclerosis, diabetes and allergies.
XX
XX Claim 20; SEQ ID NO 262; 284pp + Sequence Listing; English.
XX
XX The invention relates to an isolated polynucleotide (I) comprising one of
XX 245 sequences (ABQ93288-ABQ93532). Treating a condition comprising
XX administering to a mammalian subject a composition comprising the protein
XX (II) encoded by (I) (ABP62809-ABP63053) or an antibody (III) to (II).
XX (I), (II) and (III) are useful for diagnostic evaluation of disorders.
XX (I) is useful for gene therapy of diseases and (II) can be used for
XX therapeutic treatment. Diseases that may be treated include wound healing
XX and tissue repair, burns, central nervous system disorders (e.g.,
XX Alzheimer's, Parkinson's, Huntington's and amyotrophic lateral
XX sclerosis), immune deficiencies, cancer, autoimmune disorders, multiple
XX sclerosis, diabetes and allergies. Note: The sequence data for this
XX patent did not form part of the printed specification, but was obtained
XX in electronic format directly from WIPO at
XX ftp.wipo.int/pub/published_pct_sequences
XX
XX Sequence 442 AA;
XX
Query Match 100.0%; Score 2283; DB 5; Length 442;
Best Local Similarity 100.0%; Pred. No. 8.3e-158;
Matches 442; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 MASVLPFGSGCAAAAAAAPPGLRLRLLLLLFSAALIPGTGQNLFTKDVTVIEGEVA 60
Db 1 MASVLPFGSGCAAAAAAAPPGLRLRLLLLLFSAALIPGTGQNLFTKDVTVIEGEVA 60
Qy 61 TISQVKNKSDSVIQLLNPRTQTYFRDRLKDSRQLLNFSSELKVSILTNVSIISDEG 120
Db 61 TISQVKNKSDSVIQLLNPRTQTYFRDRLKDSRQLLNFSSELKVSILTNVSIISDEG 120
Qy 121 RYFCQLYTDPQESYTTITLVLPNRLMIDIKDQTAVEGEIEVNCCTAMASKPATIRWF 180
Db 121 RYFCQLYTDPQESYTTITLVLPNRLMIDIKDQTAVEGEIEVNCCTAMASKPATIRWF 180
Qy 181 KGNTELKGSVEEWSMDYVTSQMLKVKHEDGVPVICOVEHPAVTGNLQORYLEVQ 240
Db 181 KGNTELKGSVEEWSMDYVTSQMLKVKHEDGVPVICOVEHPAVTGNLQORYLEVQ 240
Qy 241 YKQVHIQMTYPLQGLTREGDALELTCEAIGKQPQVMTWVRVDEMPQHAVLSGPNLFI 300
Db 241 YKQVHIQMTYPLQGLTREGDALELTCEAIGKQPQVMTWVRVDEMPQHAVLSGPNLFI 300
Qy 301 NNLKNTDGTGYRCASNIIVGKAHSDYMLYVDPPTTIPPTTTTTTTTTTTTTTTTTITD 360
Db 301 NNLKNTDGTGYRCASNIIVGKAHSDYMLYVDPPTTIPPTTTTTTTTTTTTTTTTTITD 360
Qy 361 SRAGEGSIKAVDHAVIGGVAVVVFAMCLLIILGRYFARHKGTYPHAEKAGDAADA 420
Db 361 SRAGEGSIKAVDHAVIGGVAVVVFAMCLLIILGRYFARHKGTYPHAEKAGDAADA 420
Qy 421 DTAIINAEQQNNSEKKEYFI 442
Db 421 DTAIINAEQQNNSEKKEYFI 442

Db 421 DTAIINAEQQNNSEKKEYFI 442
RESULT 6
ADA27144
ID ADA27144 standard; protein; 442 AA.
XX
XX AC ADA27144;
XX
XX DT 20-NOV-2003 (first entry)
XX DE Human novel secreted protein from gene 11 #3.
XX
XX KW cytostatic; antiinflammatory; immunomodulator; neuroprotective;
KW hemostatic; gene therapy; cancer; inflammation; immune disorder;
KW neurological disorder; blood clotting disorder; food additive;
KW preservative; human; secreted protein.
XX
XX OS Homo sapiens.
XX
XX PN US2003055231-A1.
XX PD 20-MAR-2003.
XX
XX PF 29-OCT-2001; 2001US-00984130.
XX
XX PR 28-OCT-1998; 98US-0105971P.
PR 27-OCT-1999; 99WO-US025031.
PR 19-APR-2000; 2000US-0198407P.
PR 30-OCT-2000; 2000US-0243792P.
PR 18-APR-2001; 2001US-00836353.
XX
XX (NIJ)/ NI J.
PA (YOUNG)/ YOUNG P E.
PA (KENN)/ KENNY J J.
PA (OLSE)/ OLSEN H S.
PA (MOOR)/ MOORE P A.
PA (WEIY)/ WEI Y.
PA (GREE)/ GREENE J M.
PA (RUBE)/ RUBEN S M.
PA (LIUD)/ LIU D.
PA (CROC)/ CROCKER P R.
XX
XX Ni J, Young PE, Kenny JJ, Olsen HS, Moore PA, Wei Y, Greene JM;
XX Ruben SM, Liu D, Crocker PR;
XX WPI; 2003-567103/53.
XX
XX New human secreted nucleic acid molecules and polypeptides, useful for
XX preventing, treating, or ameliorating a medical condition, such as
XX cancer, inflammation, immune disorders, neurological and blood clotting
XX disorders.
XX
XX Disclosure; Page 72; 454pp; English.
XX
XX The invention relates to an isolated nucleic molecule that is at least
XX 95% identical to 18 human cDNA sequences representing 12 novel genes
XX encoding secreted proteins or a polynucleotide fragment of the cDNA
XX sequence contained in American Type Culture Collection (ATCC) deposit No.
XX defined in the specification, its species homologue, a variant or allelic
XX variant of the polynucleotide having a polynucleotide capable of
XX hybridizing under conditions the polynucleotide, where the polynucleotide
XX does not hybridise under stringent conditions to a nucleic acid molecule
XX having a nucleotide sequence of only A or T residues. Also included are
XX recombinant vectors, host cells (for producing the polypeptide), the
XX secreted polypeptide (comprising a sequence that is at least 95%
XX identical to a polypeptide fragment, domain, epitope, full-length
XX protein, variant, allelic variant or species homologue), antibodies that
XX specifically bind to the polypeptides, diagnosing, treating, preventing
XX or ameliorating a medical condition by administering the polynucleotide
XX or the polypeptide, the gene corresponding to the cDNA sequence and
XX identifying an activity in a biological assay (by expressing the cDNA
XX sequence in a cell, isolating the supernatant, and detecting an activity

Db 241 YKQVHIQMTYPLQGLTREGDALELTCEAIGKQPQVMVTVRVDDENPQHVLGPNLFI 300
Qy 301 NNLKNTDNGTYRCEASNIYVKAHSDYMLYVYDPTTTPPTTTTTTTTTTTTTTTTT 360
Db 301 NNLKNTDNGTYRCEASNIYVKAHSDYMLYVYDPTTTPPTTTTTTTTTTTTTTTTT 360
Qy 361 SRAGEGSIKRAVDHAGVIGGVAVVVFAMLCIIILGRYFARHKGTYFTHEAKGADDA 420
Db 361 SRAGEGSIKRAVDHAGVIGGVAVVVFAMLCIIILGRYFARHKGTYFTHEAKGADDA 420
Qy 421 DTAIINAEAGGQNNSEKKEYFI 442
Db 421 DTAIINAEAGGQNNSEKKEYFI 442

RESULT 8
ADE86685
ID ADE86685 standard; protein; 442 AA.
XX AC ADE86685;
XX AC ADE86685;
XX AC ADE86685;
DT 29-JAN-2004 (first entry)
XX Novel human secreted protein #11 associated protein #1.
DE human; secreted protein; cancer; liver disorder; hepatitis;
KW human; secreted protein; cancer; liver disorder; hepatitis;
KW neural disorder; Alzheimer's disease.
XX Homo sapiens.
XX OS Homo sapiens.
XX PN US2003129685-A1.
XX PD 10-JUL-2003.
XX 18-APR-2001; 2001US-00836353.
XX 28-OCT-1998; 98US-0105971P.
PR 27-OCT-1999; 99WO-US025031.
PR 19-APR-2000; 2000US-0198407P.
XX (NIJ//) NI J.
PA (YOUN//) YOUNG P E.
PA (KENN//) KENNY J J.
PA (OLSE//) OLSEN H S.
PA (MOOR//) MOORE P A.
PA (WEIY//) WEI Y.
PA (GREE//) GREENE J M.
PA (RUBE//) RUBEN S M.
XX Ni J, Young PE, Kenny JJ, Olsen HS, Moore PA, Wei Y, Greene JM;
PI Ruben SM;
XX WPI; 2004-020335/02.
XX New nucleic acid molecule, useful for preparing a medicament for
PT preventing, treating or ameliorating a medical condition e.g. cancer,
PT liver disorders or neural disorders.
XX Disclosure; SEQ ID NO 136; 380pp; English.
XX The invention relates to an isolated nucleic acid sequence, or its
CC allelic variant, a fragment of the cDNA sequence, or its fragment,
CC domain, epitope or species homologue. The nucleic acid is useful for
CC preparing a medicament for preventing, treating or ameliorating a medical
CC condition e.g., cancer, liver disorders such as hepatitis or neural
CC disorders such as Alzheimer's disease. The present sequence represents
CC the amino acid sequence of a novel human secreted protein associated
CC protein.
XX SQ Sequence 442 AA;
Query March 100.0%; Score 2283; DB 8; Length 442;
Best Local Similarity 100.0%; Pred. No. 8.3e-158;

Matches 442; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 MASVVLPSGQCQAAAAAPPGLRLRLRLRLRLRLRLRLRLRLRLRLRLRLRLRLRL 60
Db 1 MASVVLPSGQCQAAAAAPPGLRLRLRLRLRLRLRLRLRLRLRLRLRLRLRLRLRL 60
Qy 61 TISCQVNSKSDSVIQLLNPNRQTIYFRDPLKDSFOLLNPFSSSELKVLSTNVSISDEG 120
Db 61 TISCQVNSKSDSVIQLLNPNRQTIYFRDPLKDSFOLLNPFSSSELKVLSTNVSISDEG 120
Qy 121 RYFCQLYTDPPQBSYTTITVLVPPRNLMIDIQKDTAVEGSEIEVNCCTAMASKPATIRWF 180
Db 121 RYFCQLYTDPPQBSYTTITVLVPPRNLMIDIQKDTAVEGSEIEVNCCTAMASKPATIRWF 180
Qy 181 KGNTELKKGSEVEEWSDMYTVTSQMLKVHKRSDGVPVICQVEHPAVTGNLQRYLEVQ 240
Db 181 KGNTELKKGSEVEEWSDMYTVTSQMLKVHKRSDGVPVICQVEHPAVTGNLQRYLEVQ 240
Qy 241 YKQVHIQMTYPLQGLTREGDALELTCEAIGKQPQVMVTVRVDDENPQHVLGPNLFI 300
Db 241 YKQVHIQMTYPLQGLTREGDALELTCEAIGKQPQVMVTVRVDDENPQHVLGPNLFI 300
Qy 301 NNLKNTDNGTYRCEASNIYVKAHSDYMLYVYDPTTTPPTTTTTTTTTTTTTTTTT 360
Db 301 NNLKNTDNGTYRCEASNIYVKAHSDYMLYVYDPTTTPPTTTTTTTTTTTTTTTTT 360
Qy 361 SRAGEGSIKRAVDHAGVIGGVAVVVFAMLCIIILGRYFARHKGTYFTHEAKGADDA 420
Db 361 SRAGEGSIKRAVDHAGVIGGVAVVVFAMLCIIILGRYFARHKGTYFTHEAKGADDA 420
Qy 421 DTAIINAEAGGQNNSEKKEYFI 442
Db 421 DTAIINAEAGGQNNSEKKEYFI 442

RESULT 9
ABO07196
ID ABO07196 standard; protein; 442 AA.
XX AC ABO07196;
XX AC ABO07196;
DT 13-AUG-2003 (first entry)
DE Human p53 modifying protein, SEQ ID 156.
XX Human; p53 modifier; cytostatic; cancer; cytostatic; antiangiogenic;
KW antiapoptotic; p53 pathway; breast cancer; colon cancer; kidney cancer;
KW lung cancer; ovarian cancer; angiogenesis; cell cycle;
KW apoptotic disorder; cell proliferation disorder.
XX Homo sapiens.
XX OS Homo sapiens.
XX PN WO200299122-A1.
XX PD 12-DEC-2002.
XX PF 03-JUN-2002; 2002WO-US017382.
XX 05-JUN-2001; 2001US-0296076P.
PR 10-OCT-2001; 2001US-0328605P.
PR 18-FEB-2002; 2002US-0357253P.
XX (EXEL-) EXELIXIS INC.
XX Friedman L, Plowman GD, Belvin M, Francis-Lang H, Li D, Funke RP;
XX WPI; 2003-156859/15.
DR N-PSDB; ACD13371.
XX Identifying modulators of the p53 pathway for use in treating apoptotic
PT or cell proliferation disorders, comprises screening for agents that
PT modulate activity of a human ortholog of genes that modify the p53
PT pathway in Drosophila.

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|------------------------|---|---|-----------------------------------|--|--|---|---|--|--|--|--|--|--|--|--|--|--|---|---|------------------------------|------------------------------|---|
| 29-MAR-2000; 2000US-0193032P. | 29-MAR-2000; 2000US-0193033P. | 30-MAR-2000; 2000WO-US00843P. | 04-APR-2000; 2000US-0194449P. | 04-APR-2000; 2000US-0194647P. | 11-APR-2000; 2000US-0195975P. | 11-APR-2000; 2000US-0196000P. | 11-APR-2000; 2000US-0196187P. | 11-APR-2000; 2000US-0196690P. | 11-APR-2000; 2000US-0196820P. | 18-APR-2000; 2000US-0198121P. | 18-APR-2000; 2000US-0198585P. | 25-APR-2000; 2000US-0199397P. | 25-APR-2000; 2000US-0199550P. | 25-APR-2000; 2000US-0199654P. | 03-MAY-2000; 2000US-0201516P. | 17-MAY-2000; 2000WO-US013705. | 22-MAY-2000; 2000WO-US014042. | 30-MAY-2000; 2000WO-US014941. | 02-JUN-2000; 2000WO-US015264. | 05-JUN-2000; 2000US-0209832P. | 28-JUL-2000; 2000WO-US020710. | 22-AUG-2000; 2000US-00644848. | 24-AUG-2000; 2000WO-US023328. | 08-NOV-2000; 2000WO-US030952. | 01-DEC-2000; 2000WO-US032678. | 20-DEC-2000; 2000WO-US034956. | (GETH) GENENTECH INC. | Baker KP, Chen J, Desnoyers L, Goddard A, Godowski PJ, Gurney AL; Pan J, Smith V, Watanabe CK, Wood WI, Zhang Z; WPI: 2001-602746/68. N-PSDB; AAS45941. | Novel nucleic acids encoding PRO polypeptides, used to diagnose the presence of tumors, such as prostate and breast tumors, in mammals and to screen for modulators of the compounds. | Claim 11; Fig 34; 774pp; English. | Sequences AAU29024-AAU29328 represent PRO polypeptides of the invention. The PRO polypeptides and their associated nucleic acids can be used to detect the presence of a tumour in a mammal by comparing the level of expression of a PRO polypeptide in a test sample of cells from the animal and a control sample of normal cells, whereby a higher level of expression in the test sample indicates the presence of a tumour in the mammal. Mammals include dogs, cats, cattle, horses, sheep, pigs, goats and rabbits but are preferably human. The polypeptides can be used to stimulate tumour necrosis factor (TNF) alpha release from human blood, when contacted with it. A specific polypeptide can be used to stimulate the proliferation or differentiation of chondrocyte cells. The PRO proteins can be used to determine the presence of tumours and also susceptibility to tumour development, particularly adrenal, lung, colon, breast, prostate, rectal, cervical, or liver tumours, in mammalian subjects. The oligonucleotide probes specific for the PRO nucleic acids can be used for genetic analysis of individuals with genetic disorders | Query Match 99.1%; Score 2263; DB 4; Length 440; Best Local Similarity 99.5%; Pred. No. 2.4e-156; Matches 440; Conservative 0; Mismatches 0; Indels 2; Gaps 1; | 1 MASVVLPSGSCQAAAAAAPPGLRLRLRLLLLLLFSAAALIPGDCQNLFTKDVTVIEGEVA 60 | 1 MASVVLPSGSCQAAAAAAPPGL--LRLLLLLFSAAALIPGDCQNLFTKDVTVIEGEVA 58 | 61 TISCQVNSDDSVIQLLNPNRQTIYFRDPLKDSRFQLNFSSELKSVLTNNVSIISDEG 120 | 59 TISCQVNSDDSVIQLLNPNRQTIYFRDPLKDSRFQLNFSSELKSVLTNNVSIISDEG 118 | 121 RYFCQLYDTPPQESYTTITVLVPPRNLMIDIQKDTAVEGEEIEVNCAMASKPATIRWF 180 | 119 RYFCQLYDTPPQESYTTITVLVPPRNLMIDIQKDTAVEGEEIEVNCAMASKPATIRWF 178 | 181 KGNTLKGKSEVEEWSMYTTSQMLKVKHKEDDGPVICOVEHPATVGNLQRYLEVQ 240 | 179 KGNTLKGKSEVEEWSMYTTSQMLKVKHKEDDGPVICOVEHPATVGNLQRYLEVQ 238 | 241 YKPOVHIQMTYPLQGLTREGDALELTCEAIGKPOVMVTVRVDDEMPQHAVLSGPNLFI 300 | 239 YKPOVHIQMTYPLQGLTREGDALELTCEAIGKPOVMVTVRVDDEMPQHAVLSGPNLFI 298 | 301 NNLNKTNGTYRCEASNIQVKAHSDYMLVYVDPPTTIPPTTTTTTTTTTTTTILITD 360 | 299 NNLNKTNGTYRCEASNIQVKAHSDYMLVYVDPPTTIPPTTTTTTTTTTTTTILITD 358 | 361 SRAGEGSIKRAVDHAVIGGVAVVVFAMLCILILGRYFARHKGTYTTHAKGADDAADA 420 | 359 SRAGEGSIKRAVDHAVIGGVAVVVFAMLCILILGRYFARHKGTYTTHAKGADDAADA 418 | 421 DTALINAEQGNNSKEKEYFI 442 | 419 DTALINAEQGNNSKEKEYFI 440 | RESULT 15 AAU29040 ID AAU29040 standard; protein; 440 AA. XX AC AAU29040; |
|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|------------------------|---|---|-----------------------------------|--|--|---|---|--|--|--|--|--|--|--|--|--|--|---|---|------------------------------|------------------------------|---|

| | | | |
|----|-----|---|-----|
| Qy | 121 | RYFCQLYTDPQESYTTITVLVPRNLMIDIQKTAVEGEEIEVNCCTAMASKPATTIRWF | 180 |
| Db | 119 | RYFCQLYTDPQESYTTITVLVPRNLMIDIQKTAVEGEEIEVNCCTAMASKPATTIRWF | 178 |
| Qy | 181 | KGNTLKGKSEVEEWSDMYTVTSQMLKVHKEDDGPVVCQVEHPAVTGNLQRYLEVQ | 240 |
| Db | 179 | KGNTLKGKSEVEEWSDMYTVTSQMLKVHKEDDGPVVCQVEHPAVTGNLQRYLEVQ | 238 |
| Qy | 241 | YKPQVHIQMTYPIQGLTREGDALELTCEAIGKQPQVWVTWVRVDDDEMPQHAVLSGPNLFI | 300 |
| Db | 239 | YKPQVHIQMTYPIQGLTREGDALELTCEAIGKQPQVWVTWVRVDDDEMPQHAVLSGPNLFI | 298 |
| Qy | 301 | NNLNKTDNGTYRCEASNIYVKAHSDYMLVYVDPPTTIPPTTTTTTTTTTTTTTTTT | 360 |
| Db | 299 | NNLNKTDNGTYRCEASNIYVKAHSDYMLVYVDPPTTIPPTTTTTTTTTTTTTTTTT | 358 |
| Qy | 361 | SRAGEEGSIRAVDHAIVIGGVAVVVFAMLCLLIILGRYFARHKGTFTHEAKGADDAADA | 420 |
| Db | 359 | SRAGEEGSIRAVDHAIVIGGVAVVVFAMLCLLIILGRYFARHKGTFTHEAKGADDAADA | 418 |
| Qy | 421 | DTAIINAEQGQNNSEKKEYFI | 442 |
| Db | 419 | DTAIINAEQGQNNSEKKEYFI | 440 |

Search completed: June 28, 2005, 09:50:06
Job time : 121.548 secs

THIS PAGE BLANK (10/21/14)

db 61 TISCVNKSPPDSVIOLLNPNROTIFYRDPFRPLKDSRFQOLLNFSSSELKVSI TNVISDEG 120

```
QY 121 RYFCQLYDPPQBSYTTITVLVPPRNLMDIQKDTAVEGEIEIVNCTAMASKPATIRWF 180
Db 121 RYFCQLYDPPQBSYTTITVLVPPRNLMDIQKDTAVEGEIEIVNCTAMASKPATIRWF 180
QY 181 KGNTELKGKSEVEWSDMYTTSQMLKVHKEDDGPVVICQVEHPAVTGNLQRYLEVQ 240
Db 181 KGNTELKGKSEVEWSDMYTTSQMLKVHKEDDGPVVICQVEHPAVTGNLQRYLEVQ 240
QY 241 YKPVHIQMTYPLQGLTREGDALELTCEAIGKQPQVWTVWRVDDMPQHAVLSGPNLFI 300
Db 241 YKPVHIQMTYPLQGLTREGDALELTCEAIGKQPQVWTVWRVDDMPQHAVLSGPNLFI 300
QY 301 NNLNKTDNGTYRCEASNIYGKAHSDYMLVYDPPPTIPPPPTTTTTTTTTTTTTILITD 360
Db 301 NNLNKTDNGTYRCEASNIYGKAHSDYMLVYDPPPTIPPPPTTTTTTTTTTTTTILITD 360
QY 361 SRAGEGSIKSEVEWSDMYTTSQMLKVHKEDDGPVVICQVEHPAVTGNLQRYLEVQ 420
Db 361 SRAGEGSIKSEVEWSDMYTTSQMLKVHKEDDGPVVICQVEHPAVTGNLQRYLEVQ 420
QY 421 DTAINAEGGQNNSEKKEYFI 442
Db 421 DTAINAEGGQNNSEKKEYFI 442

RESULT 2
US-09-778-187B-2
; Sequence 2, Application US/09778187B
; Patent No. US20020168712A1
; GENERAL INFORMATION:
; APPLICANT: Baum, Peter R.
; FILE REFERENCE: 2873-US
; TITLE OF INVENTION: MOLECULES DESIGNATED LDCAM
; CURRENT APPLICATION NUMBER: US/09/778,187B
; CURRENT FILING DATE: 2001-02-06
; PRIOR APPLICATION NUMBER: PCT/US99/17905
; PRIOR FILING DATE: 1999-08-05
; PRIOR APPLICATION NUMBER: US 60/095,672
; PRIOR FILING DATE: 1998-08-07
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 2
; LENGTH: 442
; TYPE: PRT
; ORGANISM: homo sapiens
US-09-778-187B-2
```

```
Query Match 100.0%; Score 2283; DB 9; Length 442;
Best Local Similarity 100.0%; Pred. No. 2.4e-160;
Matches 442; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 MASVLPSCGQCAAAAAAAPPGLRLRLRLLLLSAAALPTGQNLFTKDVTVIEGEVA 60
Db 1 MASVLPSCGQCAAAAAAAPPGLRLRLRLLLLSAAALPTGQNLFTKDVTVIEGEVA 60
QY 61 TISCQVKNKSDSVIQLLNPRTIYFRDPRPLKDSRFQLNFSSELKVSLSLTVNSISDEG 120
Db 61 TISCQVKNKSDSVIQLLNPRTIYFRDPRPLKDSRFQLNFSSELKVSLSLTVNSISDEG 120
QY 121 RYFCQLYDPPQBSYTTITVLVPPRNLMDIQKDTAVEGEIEIVNCTAMASKPATIRWF 180
Db 121 RYFCQLYDPPQBSYTTITVLVPPRNLMDIQKDTAVEGEIEIVNCTAMASKPATIRWF 180
QY 181 KGNTELKGKSEVEWSDMYTTSQMLKVHKEDDGPVVICQVEHPAVTGNLQRYLEVQ 240
Db 181 KGNTELKGKSEVEWSDMYTTSQMLKVHKEDDGPVVICQVEHPAVTGNLQRYLEVQ 240
QY 241 YKPVHIQMTYPLQGLTREGDALELTCEAIGKQPQVWTVWRVDDMPQHAVLSGPNLFI 300
Db 241 YKPVHIQMTYPLQGLTREGDALELTCEAIGKQPQVWTVWRVDDMPQHAVLSGPNLFI 300
QY 301 NNLNKTDNGTYRCEASNIYGKAHSDYMLVYDPPPTIPPPPTTTTTTTTTTTTTILITD 360
Db 301 NNLNKTDNGTYRCEASNIYGKAHSDYMLVYDPPPTIPPPPTTTTTTTTTTTTTILITD 360
```

```
Db 301 NNLNKTDNGTYRCEASNIYGKAHSDYMLVYDPPPTIPPPPTTTTTTTTTTTTTILITD 360
QY 361 SRAGEGSIKSEVEWSDMYTTSQMLKVHKEDDGPVVICQVEHPAVTGNLQRYLEVQ 420
Db 361 SRAGEGSIKSEVEWSDMYTTSQMLKVHKEDDGPVVICQVEHPAVTGNLQRYLEVQ 420
QY 421 DTAINAEGGQNNSEKKEYFI 442
Db 421 DTAINAEGGQNNSEKKEYFI 442

RESULT 3
US-09-984-130-136
; Sequence 136, Application US/09984130
; Publication No. US2003005231A1
; GENERAL INFORMATION:
; APPLICANT: Ni et al.
; TITLE OF INVENTION: 12 Human Secreted Proteins
; FILE REFERENCE: PF489P2
; CURRENT APPLICATION NUMBER: US/09/984,130
; CURRENT FILING DATE: 2001-10-29
; PRIOR APPLICATION NUMBER: 60/243,792
; PRIOR FILING DATE: 2000-10-30
; PRIOR APPLICATION NUMBER: 09/836,353
; PRIOR FILING DATE: 2001-04-18
; PRIOR APPLICATION NUMBER: 60/198,407
; PRIOR FILING DATE: 2000-04-19
; PRIOR APPLICATION NUMBER: PCT/US99/25031
; PRIOR FILING DATE: 1999-10-27
; PRIOR APPLICATION NUMBER: 60/105,971
; PRIOR FILING DATE: 1998-10-28
; NUMBER OF SEQ ID NOS: 149
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 136
; LENGTH: 442
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-984-130-136
```

```
Query Match 100.0%; Score 2283; DB 10; Length 442;
Best Local Similarity 100.0%; Pred. No. 2.4e-160;
Matches 442; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 MASVLPSCGQCAAAAAAAPPGLRLRLRLLLLSAAALPTGQNLFTKDVTVIEGEVA 60
Db 1 MASVLPSCGQCAAAAAAAPPGLRLRLRLLLLSAAALPTGQNLFTKDVTVIEGEVA 60
QY 61 TISCQVKNKSDSVIQLLNPRTIYFRDPRPLKDSRFQLNFSSELKVSLSLTVNSISDEG 120
Db 61 TISCQVKNKSDSVIQLLNPRTIYFRDPRPLKDSRFQLNFSSELKVSLSLTVNSISDEG 120
QY 121 RYFCQLYDPPQBSYTTITVLVPPRNLMDIQKDTAVEGEIEIVNCTAMASKPATIRWF 180
Db 121 RYFCQLYDPPQBSYTTITVLVPPRNLMDIQKDTAVEGEIEIVNCTAMASKPATIRWF 180
QY 181 KGNTELKGKSEVEWSDMYTTSQMLKVHKEDDGPVVICQVEHPAVTGNLQRYLEVQ 240
Db 181 KGNTELKGKSEVEWSDMYTTSQMLKVHKEDDGPVVICQVEHPAVTGNLQRYLEVQ 240
QY 241 YKPVHIQMTYPLQGLTREGDALELTCEAIGKQPQVWTVWRVDDMPQHAVLSGPNLFI 300
Db 241 YKPVHIQMTYPLQGLTREGDALELTCEAIGKQPQVWTVWRVDDMPQHAVLSGPNLFI 300
QY 301 NNLNKTDNGTYRCEASNIYGKAHSDYMLVYDPPPTIPPPPTTTTTTTTTTTTTILITD 360
Db 301 NNLNKTDNGTYRCEASNIYGKAHSDYMLVYDPPPTIPPPPTTTTTTTTTTTTTILITD 360
QY 361 SRAGEGSIKSEVEWSDMYTTSQMLKVHKEDDGPVVICQVEHPAVTGNLQRYLEVQ 420
Db 361 SRAGEGSIKSEVEWSDMYTTSQMLKVHKEDDGPVVICQVEHPAVTGNLQRYLEVQ 420
QY 421 DTAINAEGGQNNSEKKEYFI 442
```

```

Db      421 DTAINAEGQNNSEKBYFI 442
|||||
RESULT 4
US-09-836-353A-136
; Sequence 136, Application US/09836353A
; Publication No. US20030129685A1
; GENERAL INFORMATION:
; APPLICANT: Ni et al.
; TITLE OF INVENTION: 12 Human Secreted Proteins
; FILE REFERENCE: PF489P1
; CURRENT APPLICATION NUMBER: US/09/836,353A
; PRIOR FILING DATE: 2001-04-18
; PRIOR APPLICATION NUMBER: 60/198,407
; PRIOR FILING DATE: 2000-04-19
; PRIOR APPLICATION NUMBER: PCT/US99/25031
; PRIOR FILING DATE: 1999-10-27
; PRIOR APPLICATION NUMBER: 60/105,971
; PRIOR FILING DATE: 1998-10-28
; NUMBER OF SEQ ID NOS: 147
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 136
; LENGTH: 442
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-836-353A-136

```

| | | | | | |
|-----------------------|-----------------|------------------------|-----------------------|-------------------------------|---------------|
| Query Match | 100.0% | Score 2283; | DB 10; | Length 442; | |
| Best Local Similarity | 100.0%; | Prod. No. 2.4e-160; | | | |
| Matches 442; | Conservative 0; | Mismatches 0; | Indels 0; | Gaps 0; | |
| Qy | 1 | MASVVLPSGSGCAAAAAAAAAA | PPGLRLRLLLLLFSAAALIP | TGDCQNLFTKDVTVIEGEVA 60 | |
| Db | 1 | MASVVLPSGSGCAAAAAAAAAA | PPGLRLRLLLLLFSAAALIP | TGDCQNLFTKDVTVIEGEVA 60 | |
| Qy | 61 | TISCOVNKSDSVIQLLNPNRQ | TIYFRDRLPKDSRFLQLNFS | SSELKVSILTNVSIISDEG 120 | |
| Db | 61 | TISCOVNKSDSVIQLLNPNRQ | TIYFRDRLPKDSRFLQLNFS | SSELKVSILTNVSIISDEG 120 | |
| Qy | 121 | RYFCQLYTDPPQESYTTITVL | VPPRNLMDIQKTA | VEGEIEVNCATAMASKPATTTIRWF 180 | |
| Db | 121 | RYFCQLYTDPPQESYTTITVL | VPPRNLMDIQKTA | VEGEIEVNCATAMASKPATTTIRWF 180 | |
| Qy | 181 | KGNTTELKKGSEVEBWSDMYT | VSQMLKVKHKDDGVPVI | COVEHPAVTGNLQORYLEVQ 240 | |
| Db | 181 | KGNTTELKKGSEVEBWSDMYT | VSQMLKVKHKDDGVPVI | COVEHPAVTGNLQORYLEVQ 240 | |
| Qy | 241 | YKPOVHIQMTYPLQGLTR | EGDALELTCEAIGKQPVMVTV | VRVDEMPQHAVLSPGNLFI 300 | |
| Db | 241 | YKPOVHIQMTYPLQGLTR | EGDALELTCEAIGKQPVMVTV | VRVDEMPQHAVLSPGNLFI 300 | |
| Qy | 301 | NNLNKTDNGTYRCASINIV | GKAHSDYMLVYVDPPTT | IPPPPTTTTTTTTTTTTTLITD 360 | |
| Db | 301 | NNLNKTDNGTYRCASINIV | GKAHSDYMLVYVDPPTT | IPPPPTTTTTTTTTTTTTLITD 360 | |
| Qy | 361 | SRAGEEGSIRAVDHAVT | IGGVAVVVFVAMLCLLI | ITLGRYFARHKCTYFTHA | KGADDAADA 420 |
| Db | 361 | SRAGEEGSIRAVDHAVT | IGGVAVVVFVAMLCLLI | ITLGRYFARHKCTYFTHA | KGADDAADA 420 |
| Qy | 421 | DTAIINAE | GGQNNSEKKGYFI 442 | | |
| Db | 421 | DTAIINAE | GGQNNSEKKGYFI 442 | | |

```

RESULT 5
US-10-302-041-20
; Sequence 20, Application US/10302041
; Publication No. US2003014478A1
; GENERAL INFORMATION:
; APPLICANT: Baum, Peter
; TITLE OF INVENTION: Molecules Design
; FILE REFERENCE: 2844-US

```

```

; CURRENT APPLICATION NUMBER: US/10/302,041
; CURRENT FILING DATE: 2002-11-21
; PRIOR APPLICATION NUMBER: US/09/778,510
; PRIOR FILING DATE: 2001-02-07
; PRIOR APPLICATION NUMBER: PCT/US99/17906
; PRIOR FILING DATE: 1999-08-05
; PRIOR APPLICATION NUMBER: 60/095,663
; PRIOR FILING DATE: 1998-08-07
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 20
; LENGTH: 442
; TYPE: PRT
; ORGANISM: Homo sapien
US-10-302-041-20

Query Match      100.0%; Score 2283; DB 14; Length 442;
Best Local Similarity 100.0%; Pred. No. 2.4e-160;
Matches 442; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MASVVLPSGSCAAAAAAPPGLRLRLLLLSFAAALIPGTGQGNLFTKDVTVIEGEVA 60
Db 1 MASVVLPSGSCAAAAAAPPGLRLRLLLLSFAAALIPGTGQGNLFTKDVTVIEGEVA 60

Qy 61 TISQVNVKSDSVIQLLNPNRQTIYFRDPLKDSRFQLNFFSSSELKVSILTNVSIISDEG 120
Db 61 TISQVNVKSDSVIQLLNPNRQTIYFRDPLKDSRFQLNFFSSSELKVSILTNVSIISDEG 120

Qy 121 RYFCQLYTDPPQSYTYITVLVPPRNLMIDIQKDTAVEGEIEIYVNCCTAMASKPATTIRWF 180
Db 121 RYFCQLYTDPPQSYTYITVLVPPRNLMIDIQKDTAVEGEIEIYVNCCTAMASKPATTIRWF 180

Qy 181 KGNTELKGKSEVEBSWDMYVTSQLMKVKHKGDDGVPICOVERHPAVTGNLQORYLEVQ 240
Db 181 KGNTELKGKSEVEBSWDMYVTSQLMKVKHKGDDGVPICOVERHPAVTGNLQORYLEVQ 240

Qy 241 YKPQVHIQMTYPLQGLTREGDALELTCEAIGKPOPMVWVRVDDDEMPQHAVLGGPNLFI 300
Db 241 YKPQVHIQMTYPLQGLTREGDALELTCEAIGKPOPMVWVRVDDDEMPQHAVLGGPNLFI 300

Qy 301 NNLNKTDNGTYRCEASNVGKAHSDYMLYVYDPPTTIPPPPTTTTTTTTTTTTTTTTTTT 360
Db 301 NNLNKTDNGTYRCEASNVGKAHSDYMLYVYDPPTTIPPPPTTTTTTTTTTTTTTTTTTT 360

Qy 361 SRAGEEGSIRAVDHAVTGGVAVVVFVAVFAMLCLLIILGRYFARHKCTYFTHEAKGADDAADA 420
Db 361 SRAGEEGSIRAVDHAVTGGVAVVVFVAVFAMLCLLIILGRYFARHKCTYFTHEAKGADDAADA 420

Qy 421 DTAIINAEGQNNSEKKEYFI 442
Db 421 DTAIINAEGQNNSEKKEYFI 442

RESULT 6
US-10-403-107-1
; Sequence 1, Application US/10403107
; Publication No. US20030165974A1
; GENERAL INFORMATION:
; APPLICANT: THE JOHNS HOPKINS UNIVERSITY SCHOOL OF MEDICINE
; APPLICANT: REEVES, Roger
; APPLICANT: YOSHINORI, Muramaki
; TITLE OF INVENTION: DIAGNOSIS AND TREATMENT OF TUMOR-SUPPRESSOR ASSOCIATED D
; FILE REFERENCE: JHU1770-1
; CURRENT APPLICATION NUMBER: US/10/403,107
; CURRENT FILING DATE: 2003-03-28
; PRIOR APPLICATION NUMBER: US/09/930,803
; PRIOR FILING DATE: 2001-08-15
; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 1
; LENGTH: 442
; TYPE: PRT
; ORGANISM: Homo sapiens

```



```
Db      1 MASVLPSSGQCAAAAAAPPGLRLRLLLLSAALIPFGQNLFTKDVTVIEGEVA 60
Qy      61 TISCQVNSDSDSVIQLNPNRQTIYFRDPRPLKDSRQLNFSSELKSLTNVSI SDEG 120
Db      61 TISCQVNSDSDSVIQLNPNRQTIYFRDPRPLKDSRQLNFSSELKSLTNVSI SDEG 120
Qy     121 RYFCQLYTDPPQBSYTTITVLVPPRNLMDIQDXTAVEGEIEVNCCTAMASKPATIRWF 180
Db     121 RYFCQLYTDPPQBSYTTITVLVPPRNLMDIQDXTAVEGEIEVNCCTAMASKPATIRWF 180
Qy     181 KGNTLKGKSEVEWSDMTVTTSQMLKVHKEDDGPVVICQVEHPAVTGNLQORYLEVO 240
Db     181 KGNTLKGKSEVEWSDMTVTTSQMLKVHKEDDGPVVICQVEHPAVTGNLQORYLEVO 240
Qy     241 YKQVHIQMTYPIQGLTREGDALELTCEAIGKQPQVWVTVRVDDEMPQHAVLSGPNLFI 300
Db     241 YKQVHIQMTYPIQGLTREGDALELTCEAIGKQPQVWVTVRVDDEMPQHAVLSGPNLFI 300
Qy     301 NNLNKTDNGTYRCEASNIQKSHSDYMLVYVDPPTTIPPTTTTTTTTTTTTTILTIITD 360
Db     301 NNLNKTDNGTYRCEASNIQKSHSDYMLVYVDPPTTIPPTTTTTTTTTTTTTILTIITD 360
Qy     361 SRAGEGSTRAVDHAVIDGIVGVVAVVVFAMLCLLIILGRYFARHKGTYFTHEAKGADDAADA 420
Db     361 SRAGEGSTRAVDHAVIDGIVGVVAVVVFAMLCLLIILGRYFARHKGTYFTHEAKGADDAADA 420
Qy     421 DTAINAEGGQNNSEKKEYFI 442
Db     421 DTAINAEGGQNNSEKKEYFI 442

RESULT 9
US-10-622-237-2
; Sequence 2, Application US/10622237
; Publication No. US20040204568A1
; GENERAL INFORMATION:
; APPLICANT: Baum, Peter R.
; TITLE OF INVENTION: MOLECULES DESIGNATED LDCAM
; FILE REFERENCE: 2873-US
; CURRENT APPLICATION NUMBER: US/10/622,237
; PRIOR FILING DATE: 2003-07-17
; PRIOR APPLICATION NUMBER: US/09/778,187B
; PRIOR FILING DATE: 2001-02-06
; PRIOR APPLICATION NUMBER: PCT/US99/17905
; PRIOR FILING DATE: 1999-08-05
; PRIOR APPLICATION NUMBER: US 60/095,672
; PRIOR FILING DATE: 1998-08-07
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: Patent in version 3.1
; SEQ ID NO 2
; LENGTH: 442
; TYPE: PRT
; ORGANISM: homo sapiens
US-10-622-237-2

Query Match      100.0%; Score 2283; DB 16; Length 442;
Best Local Similarity 100.0%; Pred. No. 2.4e-160;
Matches 442; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 MASVLPSSGQCAAAAAAPPGLRLRLLLLSAALIPFGQNLFTKDVTVIEGEVA 60
Db      1 MASVLPSSGQCAAAAAAPPGLRLRLLLLSAALIPFGQNLFTKDVTVIEGEVA 60
Qy     61 TISCQVNSDSDSVIQLNPNRQTIYFRDPRPLKDSRQLNFSSELKSLTNVSI SDEG 120
Db     61 TISCQVNSDSDSVIQLNPNRQTIYFRDPRPLKDSRQLNFSSELKSLTNVSI SDEG 120
Qy     121 RYFCQLYTDPPQBSYTTITVLVPPRNLMDIQDXTAVEGEIEVNCCTAMASKPATIRWF 180
Db     121 RYFCQLYTDPPQBSYTTITVLVPPRNLMDIQDXTAVEGEIEVNCCTAMASKPATIRWF 180
Qy     181 KGNTLKGKSEVEWSDMTVTTSQMLKVHKEDDGPVVICQVEHPAVTGNLQORYLEVO 240
Db     181 KGNTLKGKSEVEWSDMTVTTSQMLKVHKEDDGPVVICQVEHPAVTGNLQORYLEVO 240
Qy     241 YKQVHIQMTYPIQGLTREGDALELTCEAIGKQPQVWVTVRVDDEMPQHAVLSGPNLFI 300
Db     241 YKQVHIQMTYPIQGLTREGDALELTCEAIGKQPQVWVTVRVDDEMPQHAVLSGPNLFI 300
Qy     301 NNLNKTDNGTYRCEASNIQKSHSDYMLVYVDPPTTIPPTTTTTTTTTTTTTILTIITD 360
Db     301 NNLNKTDNGTYRCEASNIQKSHSDYMLVYVDPPTTIPPTTTTTTTTTTTTTILTIITD 360
Qy     361 SRAGEGSTRAVDHAVIDGIVGVVAVVVFAMLCLLIILGRYFARHKGTYFTHEAKGADDAADA 420
Db     361 SRAGEGSTRAVDHAVIDGIVGVVAVVVFAMLCLLIILGRYFARHKGTYFTHEAKGADDAADA 420
Qy     421 DTAINAEGGQNNSEKKEYFI 442
Db     421 DTAINAEGGQNNSEKKEYFI 442
```

```
Qy     181 KGNTLKGKSEVEWSDMTVTTSQMLKVHKEDDGPVVICQVEHPAVTGNLQORYLEVO 240
Db     181 KGNTLKGKSEVEWSDMTVTTSQMLKVHKEDDGPVVICQVEHPAVTGNLQORYLEVO 240
Qy     241 YKQVHIQMTYPIQGLTREGDALELTCEAIGKQPQVWVTVRVDDEMPQHAVLSGPNLFI 300
Db     241 YKQVHIQMTYPIQGLTREGDALELTCEAIGKQPQVWVTVRVDDEMPQHAVLSGPNLFI 300
Qy     301 NNLNKTDNGTYRCEASNIQKSHSDYMLVYVDPPTTIPPTTTTTTTTTTTTTILTIITD 360
Db     301 NNLNKTDNGTYRCEASNIQKSHSDYMLVYVDPPTTIPPTTTTTTTTTTTTTILTIITD 360
Qy     361 SRAGEGSTRAVDHAVIDGIVGVVAVVVFAMLCLLIILGRYFARHKGTYFTHEAKGADDAADA 420
Db     361 SRAGEGSTRAVDHAVIDGIVGVVAVVVFAMLCLLIILGRYFARHKGTYFTHEAKGADDAADA 420
Qy     421 DTAINAEGGQNNSEKKEYFI 442
Db     421 DTAINAEGGQNNSEKKEYFI 442

RESULT 10
US-10-898-408-2
; Sequence 2, Application US/10898408
; Publication No. US20050058642A1
; GENERAL INFORMATION:
; APPLICANT: GALIBERT, Laurent J.
; TITLE OF INVENTION: ANTAGONISTS AND AGONISTS OF LDCAM AND METHODS OF USE
; FILE REFERENCE: 3467-A
; CURRENT APPLICATION NUMBER: US/10/898,408
; CURRENT FILING DATE: 2004-07-23
; PRIOR APPLICATION NUMBER: 60/490,027
; PRIOR FILING DATE: 2003-07-25
; NUMBER OF SEQ ID NOS: 13
; SOFTWARE: Patent in version 3.2
; SEQ ID NO 2
; LENGTH: 442
; TYPE: PRT
; ORGANISM: homo sapiens
US-10-898-408-2

Query Match      100.0%; Score 2283; DB 17; Length 442;
Best Local Similarity 100.0%; Pred. No. 2.4e-160;
Matches 442; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 MASVLPSSGQCAAAAAAPPGLRLRLLLLSAALIPFGQNLFTKDVTVIEGEVA 60
Db      1 MASVLPSSGQCAAAAAAPPGLRLRLLLLSAALIPFGQNLFTKDVTVIEGEVA 60
Qy     61 TISCQVNSDSDSVIQLNPNRQTIYFRDPRPLKDSRQLNFSSELKSLTNVSI SDEG 120
Db     61 TISCQVNSDSDSVIQLNPNRQTIYFRDPRPLKDSRQLNFSSELKSLTNVSI SDEG 120
Qy     121 RYFCQLYTDPPQBSYTTITVLVPPRNLMDIQDXTAVEGEIEVNCCTAMASKPATIRWF 180
Db     121 RYFCQLYTDPPQBSYTTITVLVPPRNLMDIQDXTAVEGEIEVNCCTAMASKPATIRWF 180
Qy     181 KGNTLKGKSEVEWSDMTVTTSQMLKVHKEDDGPVVICQVEHPAVTGNLQORYLEVO 240
Db     181 KGNTLKGKSEVEWSDMTVTTSQMLKVHKEDDGPVVICQVEHPAVTGNLQORYLEVO 240
Qy     241 YKQVHIQMTYPIQGLTREGDALELTCEAIGKQPQVWVTVRVDDEMPQHAVLSGPNLFI 300
Db     241 YKQVHIQMTYPIQGLTREGDALELTCEAIGKQPQVWVTVRVDDEMPQHAVLSGPNLFI 300
Qy     301 NNLNKTDNGTYRCEASNIQKSHSDYMLVYVDPPTTIPPTTTTTTTTTTTTTILTIITD 360
Db     301 NNLNKTDNGTYRCEASNIQKSHSDYMLVYVDPPTTIPPTTTTTTTTTTTTTILTIITD 360
Qy     361 SRAGEGSTRAVDHAVIDGIVGVVAVVVFAMLCLLIILGRYFARHKGTYFTHEAKGADDAADA 420
Db     361 SRAGEGSTRAVDHAVIDGIVGVVAVVVFAMLCLLIILGRYFARHKGTYFTHEAKGADDAADA 420
```

```
QY 421 DTAIINAEQGQNNSEKKEYFI 442
|||||
Db 421 DTAIINAEQGQNNSEKKEYFI 442
|||||

RESULT 11
US-10-015-115-110
; Sequence 110, Application US/10015115
; Publication No. US20030207800A1
; GENERAL INFORMATION:
; APPLICANT: Malyankar, Uriel M
; APPLICANT: Shenoy, Suresh G
; APPLICANT: Spytek, Kimberly A
; APPLICANT: Zerhusen, Bryan D
; APPLICANT: Patturajan, Meera
; APPLICANT: Guo, Xiaojia
; APPLICANT: Kekuda, Ramesha
; APPLICANT: Gangolli, Esha A
; APPLICANT: Shinkets, Richard A
; APPLICANT: Taupier, Raymond J
; APPLICANT: Li, Li
; APPLICANT: Padigaru, Muralidhara
; TITLE OF INVENTION: Proteins, Polynucleotides Encoding Them and Methods of
; FILE REFERENCE: 21402-211
; CURRENT APPLICATION NUMBER: US/10/015,115
; PRIOR FILING DATE: 2002-09-23
; PRIOR APPLICATION NUMBER: 60/248,153
; PRIOR FILING DATE: 2000-11-13
; PRIOR APPLICATION NUMBER: 60/249,598
; PRIOR FILING DATE: 2000-11-17
; PRIOR APPLICATION NUMBER: 60/264,240
; PRIOR FILING DATE: 2001-01-26
; PRIOR APPLICATION NUMBER: 60/266,127
; PRIOR FILING DATE: 2001-02-02
; PRIOR APPLICATION NUMBER: 60/269,562
; PRIOR FILING DATE: 2001-02-16
; PRIOR APPLICATION NUMBER: 60/304,348
; PRIOR FILING DATE: 2001-07-10
; PRIOR APPLICATION NUMBER: 60/309,261
; PRIOR FILING DATE: 2001-07-31
; PRIOR APPLICATION NUMBER: 60/313,283
; PRIOR FILING DATE: 2001-08-17
; NUMBER OF SEQ ID NOS: 205
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 110
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-015-115-110

Query Match 99.9%; Score 2280; DB 15; Length 442;
Best Local Similarity 99.8%; Pred. No. 3.9e-160;
Matches 441; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 MASVVLPSGSCAAAAAAPPGLRLRLRLLLLSAAALPTGQQLFTKDVTVIEGEVA 60
|||||
Db 1 MASVVLPSGSCAAAAAAPPGLRLRLRLLLLSAAALPTGQQLFTKDVTVIEGEVA 60
|||||

QY 61 TISCQVKNKSDSVIQLLNPNRQTIYFRDPRPLKDSRFQLLNFSSELKVSLSNVSISDEG 120
|||||
Db 61 TISCQVKNKSDSVIQLLNPNRQTIYFRDPRPLKDSRFQLLNFSSELKVSLSNVSISDEG 120
|||||

QY 121 RYFCQLYTPDPQESYTTITVLVPPRNLMDIQDRTAVEGEEIEVNCTAMASKPATIRWF 180
|||||
Db 121 RYFCQLYTPDPQESYTTITVLVPPRNLMDIQDRTAVEGEEIEVNCTAMASKPATIRWF 180
|||||

QY 181 KGNTLKGKSEVEWSDMYTTSQMLKVHKEDDGVPLVCQVEHPAVTGNLQORYLEVQ 240
|||||
Db 181 KGNTLKGKSEVEWSDMYTTSQMLKVHKEDDGVPLVCQVEHPAVTGNLQORYLEVQ 240
|||||

QY 241 YKPOVHIQMTYPLQGLTREGDALELTCEAIGKQPQVMVTWVRVDDMPQHAVLSGPNLFI 300
|||||

RESULT 12
US-09-866-028-61
; Sequence 61, Application US/09866028
; Patent No. US20020058309A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin
; APPLICANT: Botstein, David
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gerritsen, Mary
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul
; APPLICANT: Grimaldi, Christopher
; APPLICANT: Gurney, Austin
; APPLICANT: Hillan, Kenneth
; APPLICANT: Kljavin, Ivar
; APPLICANT: Napier, Mary
; APPLICANT: Roy, Margaret
; APPLICANT: Tumas, Daniel
; APPLICANT: Wood, William
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P2548P1c1
; CURRENT APPLICATION NUMBER: US/09/866,028
; CURRENT FILING DATE: 2001-05-25
; Prior application data removed - consult PALM or file wrapper
; NUMBER OF SEQ ID NOS: 120
; SEQ ID NO 61
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-866-028-61

Query Match 99.1%; Score 2263; DB 9; Length 440;
Best Local Similarity 99.5%; Pred. No. 7e-159;
Matches 440; Conservative 0; Mismatches 0; Indels 2; Gaps 1;

QY 1 MASVVLPSGSCAAAAAAPPGLRLRLRLLLLSAAALPTGQQLFTKDVTVIEGEVA 60
|||||
Db 1 MASVVLPSGSCAAAAAAPPGLRLRLRLLLLSAAALPTGQQLFTKDVTVIEGEVA 58
|||||

QY 61 TISCQVKNKSDSVIQLLNPNRQTIYFRDPRPLKDSRFQLLNFSSELKVSLSNVSISDEG 120
|||||
Db 59 TISCQVKNKSDSVIQLLNPNRQTIYFRDPRPLKDSRFQLLNFSSELKVSLSNVSISDEG 118
|||||

QY 121 RYFCQLYTPDPQESYTTITVLVPPRNLMDIQDRTAVEGEEIEVNCTAMASKPATIRWF 180
|||||
Db 119 RYFCQLYTPDPQESYTTITVLVPPRNLMDIQDRTAVEGEEIEVNCTAMASKPATIRWF 178
|||||

QY 181 KGNTLKGKSEVEWSDMYTTSQMLKVHKEDDGVPLVCQVEHPAVTGNLQORYLEVQ 240
|||||
Db 179 KGNTLKGKSEVEWSDMYTTSQMLKVHKEDDGVPLVCQVEHPAVTGNLQORYLEVQ 238
|||||

QY 241 YKPOVHIQMTYPLQGLTREGDALELTCEAIGKQPQVMVTWVRVDDMPQHAVLSGPNLFI 300
|||||
Db 239 YKPOVHIQMTYPLQGLTREGDALELTCEAIGKQPQVMVTWVRVDDMPQHAVLSGPNLFI 298
|||||
```


| | | | |
|----|-----|--|-----|
| Qy | 301 | NNLNKTDNGTYRCEASNIYVGVVVDPPPTTPPPPTTTTTTTTTTTTTTTTTIIITD | 360 |
| Db | 299 | NNLNKTDNGTYRCEASNIYVGVVVDPPPTTPPPPTTTTTTTTTTTTTTTTTIIITD | 358 |
| Qy | 361 | SRAGEGSIKAVDHAIVGGVAVVVFAMLCLLIIILGRYFARHKGTFTHEAKGADDAADA | 420 |
| Db | 359 | SRAGEGSIKAVDHAIVGGVAVVVFAMLCLLIIILGRYFARHKGTFTHEAKGADDAADA | 418 |

RESULT 15

US-09-944-862-61
; Sequence 61, Application US/09944862
; Patent No. US20020115145A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin
; APPLICANT: Botstein, David
; APPLICANT: Bacon, Dan
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gerritsen, Mary
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul
; APPLICANT: Grimaldi, Christopher
; APPLICANT: Gurney, Austin
; APPLICANT: Hillan, Kenneth
; APPLICANT: Kljavin, Ivar
; APPLICANT: Napier, Mary
; APPLICANT: Roy, Margaret
; APPLICANT: Tumas, Daniel
; APPLICANT: Wood, William
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P2548P1C1
; CURRENT APPLICATION NUMBER: US/09/944,862
; CURRENT FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: 09/866,028
; PRIOR FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: 60/067,411
; PRIOR FILING DATE: December 3, 1997
; PRIOR APPLICATION NUMBER: 60/069,334
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,335
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,278
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,425
; PRIOR FILING DATE: December 12, 1997
; PRIOR APPLICATION NUMBER: 60/069,696
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,694
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,702
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,870
; PRIOR FILING DATE: December 17, 1997
; PRIOR APPLICATION NUMBER: 60/069,873
; PRIOR FILING DATE: December 17, 1997
; PRIOR APPLICATION NUMBER: 60/068,017
; PRIOR FILING DATE: December 18, 1997
; PRIOR APPLICATION NUMBER: 60/070,440
; PRIOR FILING DATE: January 5, 1998
; PRIOR APPLICATION NUMBER: 60/074,086
; PRIOR FILING DATE: February 9, 1998
; PRIOR APPLICATION NUMBER: 60/074,092
; PRIOR FILING DATE: February 9, 1998
; PRIOR APPLICATION NUMBER: 60/075,945
; PRIOR FILING DATE: February 25, 1998
; PRIOR APPLICATION NUMBER: 60/112,850

```

1  PRIOR FILING DATE: December 16, 1998
2  PRIOR APPLICATION NUMBER: 60/113,296
3  PRIOR FILING DATE: December 22, 1998
4  PRIOR APPLICATION NUMBER: 60/146,222
5  PRIOR FILING DATE: July 28, 1999
6  PRIOR APPLICATION NUMBER: PCT/US98/19330
7  PRIOR FILING DATE: September 16, 1998
8  PRIOR APPLICATION NUMBER: PCT/US98/25108
9  PRIOR FILING DATE: December 1, 1998
10 PRIOR APPLICATION NUMBER: 09/216,021
11 PRIOR FILING DATE: December 16, 1998
12 PRIOR APPLICATION NUMBER: 09/218,517
13 PRIOR FILING DATE: December 22, 1998
14 PRIOR APPLICATION NUMBER: 09/254,311
15 PRIOR FILING DATE: March 3, 1999
16 PRIOR APPLICATION NUMBER: PCT/US99/12252
17 PRIOR FILING DATE: June 22, 1999
18 PRIOR APPLICATION NUMBER: PCT/US99/21090
19 PRIOR FILING DATE: September 15, 1999
20 PRIOR APPLICATION NUMBER: PCT/US99/28409
21 PRIOR FILING DATE: No. US20020115145A1e1emher 30, 1999
22 PRIOR APPLICATION NUMBER: PCT/US99/28313
23 PRIOR FILING DATE: No. US20020115145A1e1emher 30, 1999
24 PRIOR APPLICATION NUMBER: PCT/US99/28301
25 PRIOR FILING DATE: December 1, 1999
26 PRIOR APPLICATION NUMBER: PCT/US99/30095
27 PRIOR FILING DATE: December 16, 1999
28 PRIOR APPLICATION NUMBER: PCT/US00/03565
29 PRIOR FILING DATE: February 11, 2000
30 PRIOR APPLICATION NUMBER: PCT/US00/04414
31 PRIOR FILING DATE: February 22, 2000
32 PRIOR APPLICATION NUMBER: PCT/US00/05841
33 PRIOR FILING DATE: March 2, 2000
34 PRIOR APPLICATION NUMBER: PCT/US00/08439
35 PRIOR FILING DATE: March 30, 2000
36 PRIOR APPLICATION NUMBER: PCT/US00/14042
37 PRIOR FILING DATE: May 22, 2000
38 PRIOR APPLICATION NUMBER: PCT/US00/20710
39 PRIOR FILING DATE: July 28, 2000
40 PRIOR APPLICATION NUMBER: PCT/US00/32678
41 PRIOR FILING DATE: December 1, 2000
42 PRIOR APPLICATION NUMBER: PCT/US01/06520
43 PRIOR FILING DATE: February 28, 2001
44 NUMBER OF SEQ ID NOS: 120
45 SEQ ID NO 61
46 LENGTH: 440
47 TYPE: PRT
48 ORGANISM: Homo Sapien
49 US-09-944-862-61

```

| | Query Match | 99.1%; Score 2263; DB 9; Length 440; | |
|----|---|--------------------------------------|--|
| | Best Local Similarity 99.5%; Pred. No. 7e-159; | | |
| | Matches 440; Conservative 0; Mismatches 0; Indels 2; Gaps 1; | | |
| Qy | 1 MASVLPSSGQCACAAAAAAPPGLRLRLLELLLSAAALIPITGGQNLFITKDVTVIEGEVA 60 | | |
| Dd | 1 MASVLPSSGQCACAAAAAAPPGLRLRLLELLLSAAALIPITGGQNLFITKDVTVIEGEVA 58 | | |
| Qy | 61 TISCVNKSDDSVIQLLNPNRQTITYFRDPRPKDSRFQLNFSSSELKVSLTNNVISIDEG 120 | | |
| Dd | 59 TISCVNKSDDSVIQLLNPNRQTITYFRDPRPKDSRQLNFSSSELKVSLTNNVISIDEG 118 | | |
| Qy | 121 RYFCQLYTDPQPESYTTITVLVPNRNLIMIDIKDQTAVEGEIEIVNCVTAMASKPATIRWF 180 | | |
| Dd | 119 RYFCQLYTDPQPESYTTITVLVPNRNLIMIDIKDQTAVEGEIEIVNCVTAMASKPATIRWF 178 | | |
| Qy | 181 KGNTELKGKSEVEEWSDMYTVTSQLMLKHKBDDGVPICOVEHPAVTGNLQORYLEVQ 240 | | |
| Dd | 179 KGNTELKGKSEVEEWSDMYTVTSQLMLKHKBDDGVPICOVEHPAVTGNLQORYLEVQ 238 | | |
| Qy | 241 YKPOVHTQMTPYLOGLTREGDALLETCEATIGKQOPVMWVRVDDEMPHAVISGNPLFI 300 | | |
| Dd | 239 YKPOVHTQMTPYLOGLTREGDALLETCEATIGKQOPVMWVRVDDEMPHAVISGNPLFI 298 | | |

| | | | |
|----|-----|--|-----|
| Qy | 301 | NNLAKTDNGTGRCEASNTVGAHSDYMLVVDPPPTIIPPTTTTTTTTTTTTTTTTTIIITD | 360 |
| Dd | 299 | NNLAKTDNGTGRCEASNTVGAHSDYMLVVDPPPTIIPPTTTTTTTTTTTTTTTTTIIITD | 358 |
| Qy | 361 | SRAGEEGSIRAVDHAVIGGVAVVVVFAMLCLLIILGRYFARHKGYTFTHEAGGADDAADA | 420 |
| Dd | 359 | SRAGEEGSIRAVDHAVIGGVAVVVVFAMLCLLIILGRYFARHKGYTFTHEAGGADDAADA | 418 |
| Qy | 421 | DTAIINAEGGQNSEEKEYFI | 442 |
| Dd | 419 | DTAIINAEGGQNSEEKEYFI | 440 |

Search completed: June 28, 2005, 10:12:35
Job time : 114.927 secs

| Result No. | Query | | | DB | ID | Description |
|------------|-------|-------|--------|----|---------------------|-------------------|
| | Score | Match | Length | | | |
| 1 | 2283 | 100.0 | 442 | 4 | US-09-778-510-20 | Sequence 20, Appl |
| 2 | 2283 | 100.0 | 442 | 4 | US-09-930-803-1 | Sequence 1, Appl |
| 3 | 2263 | 99.1 | 440 | 4 | US-09-866-028-61 | Sequence 61, Appl |
| 4 | 2263 | 99.1 | 440 | 4 | US-09-944-457-61 | Sequence 61, Appl |
| 5 | 2169 | 95.0 | 423 | 4 | US-09-778-510-22 | Sequence 22, Appl |
| 6 | 902 | 39.5 | 444 | 3 | US-08-659-984A-5 | Sequence 5, Appl |
| 7 | 902 | 39.5 | 444 | 3 | US-08-660-531-5 | Sequence 5, Appl |
| 8 | 895.5 | 39.2 | 421 | 2 | US-08-659-984A-1 | Sequence 1, Appl |
| 9 | 895.5 | 39.2 | 421 | 3 | US-08-660-531-1 | Sequence 1, Appl |
| 10 | 745.5 | 32.7 | 398 | 4 | US-09-778-510-4 | Sequence 4, Appl |
| 11 | 739 | 32.4 | 398 | 4 | US-09-778-510-6 | Sequence 6, Appl |
| 12 | 739 | 32.4 | 398 | 4 | US-09-707-794A-84 | Sequence 84, Appl |
| 13 | 739 | 32.4 | 398 | 4 | US-09-905-125A-84 | Sequence 84, Appl |
| 14 | 739 | 32.4 | 398 | 4 | US-09-902-775A-84 | Sequence 84, Appl |
| 15 | 739 | 32.4 | 398 | 4 | US-09-906-700-84 | Sequence 84, Appl |
| 16 | 739 | 32.4 | 398 | 4 | US-09-903-603A-84 | Sequence 84, Appl |
| 17 | 739 | 32.4 | 398 | 4 | US-09-904-920A-84 | Sequence 84, Appl |
| 18 | 739 | 32.4 | 398 | 4 | US-09-909-064-84 | Sequence 84, Appl |
| 19 | 739 | 32.4 | 398 | 4 | US-09-905-381A-84 | Sequence 84, Appl |
| 20 | 739 | 32.4 | 398 | 4 | US-09-906-618A-84 | Sequence 84, Appl |
| 21 | 722 | 31.6 | 432 | 4 | US-09-778-510-2 | Sequence 2, Appl |
| 22 | 335 | 14.7 | 227 | 4 | US-09-205-258-947 | Sequence 947, App |
| 23 | 256.5 | 11.2 | 514 | 4 | US-09-949-016-11380 | Sequence 11380, A |
| 24 | 256.5 | 11.2 | 517 | 4 | US-09-723-368-4 | Sequence 4, Appl |
| 25 | 248 | 10.9 | 518 | 4 | US-09-919-172-20 | Sequence 20, Appl |
| 26 | 241 | 10.6 | 456 | 4 | US-09-949-016-7564 | Sequence 7564, Ap |
| 27 | 240 | 10.5 | 417 | 4 | US-09-949-016-6729 | Sequence 6729, Ap |


```
; CURRENT FILING DATE: 2001-02-07
; PRIOR APPLICATION NUMBER: PCT/US99/17906
; PRIOR FILING DATE: 1999-08-05
; PRIOR APPLICATION NUMBER: 60/095,663
; PRIOR FILING DATE: 1998-08-07
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: PatentIn Ver. 2.0
; LENGTH: 423
; TYPE: PRT
; ORGANISM: Mus musculus
US-09-778-510-22

Query Match          95.0%; Score 2169; DB 4; Length 423;
Best Local Similarity 98.8%; Pred. No. 8.4e-182;
Matches 418; Conservative 1; Mismatches 4; Indels 0; Gaps 0;

Qy 19 AAPPGLRLRLRLLLLSAAALPTGDSQNLFTKDVTVIEGEVATISQVKNKSDSDSVIQLLN 78
Db 1 AAPPGLRLRLRLLLLSAAALPTGDSQNLFTKDVTVIEGEVATISQVKNKSDSDSVIQLLN 60

Qy 79 PNRQTIYFRDPRPLKDSRFOLLNFSSELKVSLSLTNVSISDEGRYFCOLYTDPPQESYTTI 138
Db 61 PNRQTIYFRDPRPLKDSRFOLLNFSSELKVSLSLTNVSISDEGRYFCOLYTDPPQESYTTI 120

Qy 139 TVLVPPRNLMIDIKQDTAVAGEEIEVNCTAMASKPATTIIRWFKGNTLKGKSEVEEWSDM 198
Db 121 TVLVPPRNLMIDIKQDTAVAGEEIEVNCTAMASKPATTIIRWFKGNTLKGKSEVEEWSDM 180

Qy 199 YTVTSQMLMKVHKEDDGPVVCQVEHPAVTGNLQRYLEVQYKQVHIQMTYPLQGLTR 258
Db 181 YTVTSQMLMKVHKEDDGPVVCQVEHPAVTGNLQRYLEVQYKQVHIQMTYPLQGLTR 240

Qy 259 EGDALLETCAIGKQPQVMTWVRVDDMPQHAVLSGNPLFINNLKNTDNGTYRCEASNI 318
Db 241 EGDALLETCAIGKQPQVMTWVRVDDMPQHAVLSGNPLFINNLKNTDNGTYRCEASNI 300

Qy 319 VGRAHSDYMLYVDPPTTIPTPTTTTTTTTTTTTTTTTTTTTTITDTSRAGEGSIKRAVDHAVIG 378
Db 301 VGRAHSDYMLYVDPPTTIPTPTTTTTTTTTTTTTTTTTTTTTITDTSRAGEGSIKRAVDHAVIG 360

Qy 379 GVAVVVVFMCLLIIILGRYFARHKGTYFTHEAKGADDAADADTAIINAEQGNNSSEKK 438
Db 361 GVAVVVVFMCLLIIILGRYFARHKGTYFTHEAKGADDAADADTAIINAEQGNNSSEKK 420

Qy 439 EYF 441
Db 421 EYF 423

RESULT 6
US-08-659-984A-5
; Sequence 5, Application US/08659984A
; Patent No. 5942400
; GENERAL INFORMATION:
; APPLICANT: Anderson, John P.
; APPLICANT: Sinha, Sukanto
; APPLICANT: Jacobson-Croak, Kirsten L.
; TITLE OF INVENTION: Assays for Detecting Beta-Secretase
; TITLE OF INVENTION: Inhibition
; NUMBER OF SEQUENCES: 21
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Townsend and Townsend and Crew LLP
; STREET: Two Embarcadero Ctr., 8th Floor
; CITY: San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94111-3834
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25

; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/659,984A
; FILING DATE: 07-JUN-1996
; CLASSIFICATION: 436
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/485,152
; FILING DATE: 07-JUN-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Heslin, James M.
; REGISTRATION NUMBER: 29,541
; REFERENCE/DOCKET NUMBER: 15270-002810US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-326-2400
; TELEFAX: 415-326-2422
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 444 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-659-984A-5

Query Match          39.5%; Score 902; DB 2; Length 444;
Best Local Similarity 44.6%; Pred. No. 1.1e-70;
Matches 194; Conservative 74; Mismatches 137; Indels 30; Gaps 7;

Qy 31 LLFSA---LPTGQGNLFTKDVTVIEGEVATISQVKNKSDSDSVIQLLNPNRQTIYFR 87
Db 17 LLQAAAKNKNKVGSGQFPLTQNTVVEGGTALTICRVDDNDNTSLQWSNPAQOTLYFD 76

Qy 88 DFRPLKDSRFOLLNFSSELKVSLSLTNVSISDEGRYFCOLYTDPPQESYTTITVLVPPRN 147
Db 77 DKALRDNIELVRAWHLSISVDSVLSDEQYTCSLFTMPVKTSKAYLTVLGVPEKP 136

Qy 148 MIDIQDXTAVEGIEIEVNCTAMASKPATTIIRWFKGNTLKGKSEVEEWS---DMYTVTSQ 204
Db 137 QISGSPSPVMEGLMQLTCKTSGKPAADIRWFKNDKEIKDVYKLEEDANRKTFTVSST 196

Qy 205 LMLKVHKEDDGPVVCQVEHPAVTGNLQ-TQRYLEVQYKQVHIQMTYPLQGLTREGDAL 263
Db 197 LDFRVDSDGVAICRVDSHESLNATPQVAMQVLEIHYTPSVKI---IPSTPPFQEGQPL 253

Qy 264 ELTCEAIGKQPQVMTWVRVDDM---PQHAVLSGNPLFINNLKNTDNGTYRCEASINVGK 321
Db 254 ILTCEKSGRPLEPEVLWTKDGGELPDPDRMVSGRELNILFLNKTDNGTYRCEATWIGQ 313

Qy 322 AHSYMLYVDPPTTIPTPTTTTTTTTTTTTTTTTTTTTTITIT-----DSRAGEEG 367
Db 314 SSAEYVLIVHDVNTLLPTTIIPSLTATVTTVAITTSPTTSATTSIRDPNALAQNG 373

Qy 368 SIRAVDHAIVGGVAVVFMCLLIIILGRYFARHKGTYFTHEAKGADDAADADTAIINA 427
Db 374 P----DHALIGGIVAVVVFVTLCSIFLLGRYLARHKGTYLTNEAKGAEDAPDADTAIINA 429

Qy 428 EGGQNNSEKKEYFI 442
Db 430 EGSQVNAEKKKEYFI 444

RESULT 7
US-08-660-531-5
; Sequence 5, Application US/08660531
; Patent No. 6221645
; GENERAL INFORMATION:
; APPLICANT: Chrysler, Susanna M.S.
; APPLICANT: Sinha, Sukanto
; APPLICANT: Keim, Pamela S.
; APPLICANT: Anderson, John P.
; TITLE OF INVENTION: Beta-Secretase
; NUMBER OF SEQUENCES: 21
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Townsend and Townsend and Crew LLP
```



```
; STREET: Two Embarcadero Ctr., 8th Floor
; CITY: San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94111-3834
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/660,531
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/480,498
; FILING DATE: 07-JUN-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Heslin, James M.
; REGISTRATION NUMBER: 29,541
; REFERENCE/DOCKET NUMBER: 15270-002210US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-326-2400
; TELEFAX: 415-326-2422
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 444 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-660-531-5

Query Match      39.5%; Score 902; DB 3; Length 444;
Best Local Similarity 44.6%; Pred. No. 1.1e-70;
Matches 194; Conservative 74; Mismatches 137; Indels 30; Gaps 7;

Qy 31 LLFSA---LIPFGDGNLFTKDVTVIEGEVATISQVKNKSDSVIQLNPNRQTIYFR 87
Db 17 LLLQAAASKNKVGSGQGFPLTQNVTVVEGTAITLCRVQNDNTSLQWSNPAQQTLYFD 76
Qy 88 DFRPLKDSRQLLNFSSELKVLTVNSISDEGRYFCOLYTDPPQESYTTITVLVPPNRL 147
Db 77 DKALRNRIELVLRASWHELSISVSDSLSDGQYTCSLFTMPVKTSKAYLTVLGVPEKP 136
Qy 148 MIDIQKTAVEGEIEVNCVTAMASKPATIRFWKGNTELKGSVEEWS---DMYTVTSQ 204
Db 137 QISGFSFVMEGDLMLQTLCKTSKSPAADIRFWKNDKEIKDKVYLKEEDANRKTFTVSST 196
Qy 205 LMLKVHEDDGVPIQVHEPAVTGNLQ-TQRYLEVQYKPOVHIQMTYPLQGLTREGDAL 263
Db 197 LDFRVDSDGVAICRVDSLSNATPQVAMQVLEIHYTPSVKI---IPSTPPQEGQPL 253
Qy 264 ELTCEATGKPOVMVTVRVDDEM--POHAVLSGPNLFINNKNKTNGTYRCEASNIYVK 321
Db 254 ILTCSGKPLPEPVLMTKGGELPDRMVVSGRELNLFLNKTDNGTYRCEATNTIGQ 313
Qy 322 AHSYMLYVYDPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 367
Db 314 SSAEVLIVHDVNTLLPTTIIPSLTATVTTVAITTSPTTSATTSSIRDPNALAQNG 373
Qy 368 SIRAVDHAVIGGVAVVVFVAMLCILLIILGRYFARHKGTYFTHKAGDADAADATAINA 427
Db 374 P---DHALLIGGIIVAVVVFVTLCSIFILGRYLARHKGTYLTNEAKGAEDAPDADTAINA 429
Qy 428 EGGQNNSEKKEYFI 442
Db 430 EGSQVNAEKEKKEYFI 444

RESULT 8
US-08-659-984A-1
; Sequence 1, Application us/08659984A

; Patent No. 5942400
; GENERAL INFORMATION:
; APPLICANT: Anderson, John P.
; APPLICANT: Sinha, Sukanto
; APPLICANT: Jacobson-Croak, Kirsten L.
; TITLE OF INVENTION: Assays for Detecting Beta-Secretase
; TITLE OF INVENTION: Inhibition
; NUMBER OF SEQUENCES: 21
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Townsend and Townsend and Crew LLP
; STREET: Two Embarcadero Ctr., 8th Floor
; CITY: San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94111-3834
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/659,984A
; FILING DATE: 07-JUN-1996
; CLASSIFICATION: 436
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/485,152
; FILING DATE: 07-JUN-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Heslin, James M.
; REGISTRATION NUMBER: 29,541
; REFERENCE/DOCKET NUMBER: 15270-002810US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-326-2400
; TELEFAX: 415-326-2422
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 421 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-659-984A-1

Query Match      39.2%; Score 895.5; DB 2; Length 421;
Best Local Similarity 45.1%; Pred. No. 3.9e-70;
Matches 189; Conservative 73; Mismatches 130; Indels 27; Gaps 6;

Qy 44 GQNLFTKQVTVIEGEVATISQVKNKSDSVIQLNPNRQTIYFRDPLKDSRQOLLNFS 103
Db 10 GQPLTQNVTVVEGTAITLCRVQNDNTSLQWSNPAQQTLYFDKKALRNRIELVRAS 69
Qy 104 SSELKVLTVNSISDEGRYFCOLYTDPPQESYTTITVLVPPNRLMIDIQKDTAVEGEIE 163
Db 70 WHELSISVSDSLSDGQYTCSLFTMPVKTSKAYLTVLGVPEKPIQISGFSFVMEGDLQ 129
Qy 164 VNCVTAMASKPATIRFWKGNTELKGSVEEWS---DMYTVTSQMLKVHEDDGVPIVC 220
Db 130 LTCKTSKSPAADIRFWKNDKEIKDKVYLKEEDANRKTFTVSSTLDFRVDSDGVAIC 189
Qy 221 QVHEPAVTGNLQ-TQRYLEVQYKPOVHIQMTYPLQGLTREGDALELCEAIKGPQVMT 279
Db 190 RVDSLSNATPQVAMQVLEIHYTPSVKI---IPSTPPQEGQPLILCESKGPLPEPVL 246
Qy 280 WVRVDDM--POHAVLSGPNLFINNKNKTNGTYRCEASNIYVKAHSDYMLVYVDPPTTI 337
Db 247 WTKDGGELPDRMVVSGRELNLFLNKTDNGTYRCEATNTIGSSAEYLVIVHDVENTL 306
Qy 338 PPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 383
Db 307 LPTTIIPSLTATVTTVAITTSPTTSATTSSIRDPNALAQNGP---DHALLIGGIIVAV 362
Qy 384 VVFAMLCILLIILGRYFARHKGTYFTHKAGDADAADATAINAEGGQNNSEKKEYFI 442
```

Db 363 VVFVTLCSIFLGRYLARHKGTYLTNEAKGAEDAPDADTAIINAEGSQVNAEKEKEYFI 421

RESULT 9

US-08-660-531-1

; Sequence 1, Application US/08660531

; Patent No. 6221645

; GENERAL INFORMATION:

; APPLICANT: Chrysler, Susanna M.S.

; APPLICANT: Sinha, Sukanto

; APPLICANT: Keim, Pamela S.

; APPLICANT: Anderson, John P.

; TITLE OF INVENTION: Beta-Secretase

; NUMBER OF SEQUENCES: 21

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Townsend and Townsend and Crew LLP

; STREET: Two Embarcadero Ctr., 8th Floor

; CITY: San Francisco

; STATE: California

; COUNTRY: USA

; ZIP: 94111-3834

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: PatentIn Release #1.0, Version #1.25

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/660,531

; FILING DATE:

; CLASSIFICATION: 435

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: US/08/480,498

; FILING DATE: 07-JUN-1995

; ATTORNEY/AGENT INFORMATION:

; NAME: Heslin, James M.

; REGISTRATION NUMBER: 29,541

; REFERENCE/DOCKET NUMBER: 15270-002210US

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: 415-326-2400

; TELEFAX: 415-326-2422

; INFORMATION FOR SEQ ID NO: 1:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 421 amino acids

; TYPE: amino acid

; STRANDEDNESS: single

; TOPOLOGY: linear

; MOLECULE TYPE: protein

US-08-660-531-1

Query Match 39.2%; Score 895.5; DB 3; Length 421;

Best Local Similarity 45.1%; Pred. No. 3.9e-70;

Matches 189; Conservative 73; Mismatches 130; Indels 27; Gaps 6;

Qy 44 GQNLFTKDVTVIEGEVATISQVKNKSDSVQLLNPNRQTYFRDPLKDSRFQLNFS 103

Db 10 GQPLTQNTVVEGGTALTICRVQDQNTSLQSNPAQQLTYFDKALDRNRIELVRAS 69

Qy 104 SSELKSLTNVSIISDEGRYFCOLYTDPPQESYTTITVLVPPNLMIDIQKDAVEGEIE 163

Db 70 WHELSTISVSVLSDEGQYCSLFTMPVKTSKAYLTVLGVPEKPIQSGFSSPVMEGLMQ 129

Qy 164 VNCTAMASKPATTIRFWKGNTELKGEVEEWS---DMYTVTSQMLKVHKEDDGVFVIC 220

Db 130 LTCKTSKGAADIRFWKGNKEIKDVYKLEEDANRKTFTVSTLDFRVDSDGVAVIC 189

Qy 221 QVEHPATGNLQ-TQRYLEYQVQKQVHIQMTYPLQGLTREGDALELTCEAIGKQPQVMT 279

Db 190 RVDHESLNATPQVAMQVLEIHYTPSVKI---IPSTPPPGQQLILTCSKGRPLPEPVL 246

Qy 280 WVRVDDKM--PQHAVLSGPNLFINLNKNTDNGTYRCEASNIIVGKASDYMLYVDDPPTTI 337

Db 247 WTKDGGELPDPDRMVSVSGRELNLFLNKNKTNGTYRCEATNTIQQSSAEYVLIVHDVENTL 306

Qy 338 PPPTTTTTTTTTTTTTTTTTTTTTIT-----DSRAGEGSTRVDHAVIGGVAV 383

Db 307 LPTTIIPSLTATVTTTVAITTSPTTSATTSSIRDNALAGQNP---DHALIGGIVAV 362

Qy 384 VVFAMLCILLIIGRYFARHKGTYFTEAKGADDAADTAIINAEGSQVNAEKEKEYFI 442

Db 363 VVFVTLCSIFLGRYLARHKGTYLTNEAKGAEDAPDADTAIINAEGSQVNAEKEKEYFI 421

RESULT 10

US-09-778-510-4

; Sequence 4, Application US/09778510

; Patent No. 6512095

; GENERAL INFORMATION:

; APPLICANT: Baum, Peter

; TITLE OF INVENTION: Molecules Designated B7L1

; FILE REFERENCE: 2844-US

; CURRENT APPLICATION NUMBER: US/09/778,510

; CURRENT FILING DATE: 2001-02-07

; PRIOR APPLICATION NUMBER: PCT/US99/17906

; PRIOR FILING DATE: 1999-08-05

; PRIOR APPLICATION NUMBER: 60/095,663

; PRIOR FILING DATE: 1998-08-07

; NUMBER OF SEQ ID NOS: 22

; SOFTWARE: PatentIn Ver. 2.0

; SEQ ID NO 4

; LENGTH: 398

; TYPE: PRT

; ORGANISM: Mus musculus

US-09-778-510-4

Query Match 32.7%; Score 745.5; DB 4; Length 398;

Best Local Similarity 39.1%; Pred. No. 5.2e-57;

Matches 172; Conservative 74; Mismatches 137; Indels 57; Gaps 11;

Qy 16 AAAAPPGLRLRLLLLLFSAALIPG-----DQQLFTKDVTVIEGEVATISQVKNKSD 70

Db 3 APAASP---VPLLLLL--ACSWAPGGANLSQDSDQPTSDSTVAVAGTVVLKQCVKDHE 56

Qy 71 DSVIQLLNPNRQTYFRDPLKDSRFQLLNFSSELKSLTNVSIISDEGRYFCOLYTD 130

Db 57 DSSLQSNPAQQLTYFGEKRALDRNRIQLVSTPHLSISINVALADEGEYTCSTFTMP 116

Qy 131 POESYTTITVLVPPNLMIDIQKDAVEGEIEVNVCTAMASKPATTIRFWKGNTELKQ-K 189

Db 117 VRTAKSLVTVLGIPOKPIITGYKSSLREKETATLNCQSSGSKPAAQLTWKQQLHGDQ 176

Qy 190 SEVEEWS--MYTVTSQMLKVHKEDDGVFVICQVEHPAVTG-NLOTQRYLEYQVQKQVH 246

Db 177 TRIQEDPNGKTFVSSSVSFQVTRDEDDGANIVCSVNHESLKGADRSQRIEVLVYPTAM 236

Qy 247 IQMTYPLQGLTREGDALELTCEAIGKQPQVMTVTVRVDDEMP---QHAVLSGPNLFINN 302

Db 237 IR---PEPAHPRGQKLLHLHCEGRGNPVQQYVYVKEGSEPPPLKMTQESALIFP-----F 288

Qy 303 LNKTDNGTYRCEASNIIVGKASDYMLYVDDPPTTIPTPTTTTTTTTTTTTTTTTTITDSR 362

Db 289 LNKSDSGTYCTATSNMGSTAYFTLVNDPS---PVPSSSTY-----PVPSSSTY----- 329

Qy 363 AGEBSIRAVDHAVIGGVAVVVFAMLCILLIIGRYFARHKGTYFTEAKGADDAADTA 422

Db 330 -----HAIIGGIVAFIVFLLLIILLIFLGHYLRHKGTYLTNEAKGSDDPADPT 378

Qy 423 AIINAEGSQVNAEKEKEYFI 442

Db 379 AIINAEGSQVGGDDKKEYFI 398

RESULT 11

US-09-778-510-6

; Sequence 6, Application US/09778510

; Patent No. 6512095

; GENERAL INFORMATION:

APPLICANT: Baum, Peter
TITLE OF INVENTION: Molecules Designated B7L1
FILE REFERENCE: 2844-US
CURRENT APPLICATION NUMBER: US/09/778,510
PRIOR FILING DATE: 2001-02-07
PRIOR FILING DATE: PCT/US99/17906
PRIOR FILING DATE: 1999-08-05
PRIOR APPLICATION NUMBER: 60/095,663
NUMBER OF SEQ ID NOS: 22
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 6
LENGTH: 398
TYPE: PRT
ORGANISM: Homo sapien
US-09-778-510-6

Query Match 32.4%; Score 739; DB 4; Length 398;
Best Local Similarity 38.6%; Pred. No. 1.9e-56;
Matches 166; Conservative 73; Mismatches 147; Indels 44; Gaps 9;

Qy 22 PGLRLRLLLLSAAALPTG-----DQNLFTKDVTVIEGEVATISQVKNKSDSVIQL 76
Db 4 PAASLLLLLLLF-ACCWAPGANLSQDSDQWTSDETVAGTTLVKCKQVKDHEDSSLOW 62

Qy 77 LNPNOTIYFRDPRPLKDSRFQLLNFSSSELKVLSTNVISDEGRYFCQLYTDPQESYT 136
Db 63 SNPAQOTLYFGKRALRDNRIQLVSTPHELSISINVALADEGEYTCSTFTMPVRTAKS 122

Qy 137 TITVLVPPRNLMIDIOKDTAVEGEIEVNCETAMASKPATIRWFKGNTELKKGK-SEVEEW 195
Db 123 LVTVLGIPQPIITGYKSSUREKDTATLNCQSSGSKPAARLTWRKQDELHGEPTRIQED 182

Qy 196 SD--MYTTSQMLKVKHEDGVPICOVEHPAVTG-NLQTRYLEYQYKPVQVHIQMTYP 252
Db 183 PNGKTFVSSSVTFQVTRDDGASIVCSVNHESLKADRSQSRIEVLVYPTAMIRPDPP 242

Qy 253 LQGITREGDALELCEALGKQPPVWTVVRVDDMPQHAVLSGNLFINNLKNTDNGTYR 312
Db 243 ---HPREGQKLLHCEGRGNPVPQOYLWEK-EGSVPLPKMTQESALIFPFLNKSDSGTYG 298

Qy 313 CEASNIVGKAHSDYMLVYDPPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 372
Db 299 CTATSNMGSKAYTLNVDNS---VPSSSSTY----- 329

Qy 373 DHAIVGGVAVVVFAMCLLILGRYFARHKGTYFTHEAKGADDAADATAINAEGGQN 432
Db 330 -HAIGGIVAFIVFLMLIMLIFLGHYLIRHKGYTLTHEAKGSDDAPADTAINAEGGQS 308

Qy 433 NSEBKKEYFI 442
Db 389 GGDDKKEYFI 398

RESULT 12
US-09-707-794A-84
Sequence 84, Application US/09907794A
Patent No. 6635468
GENERAL INFORMATION:
APPLICANT: Genentech, Inc.
APPLICANT: Ashkenazi, Avi
APPLICANT: Botstein, David
APPLICANT: Desnovers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Filvaroff, Ellen
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, A.
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, Christopher J.

APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth, J.
APPLICANT: Kljavin, Ivar J.
APPLICANT: Mather, Jennie P.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William, I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: 10466-14
CURRENT APPLICATION NUMBER: US/09/907,794A
PRIOR FILING DATE: 2001-07-17
PRIOR APPLICATION NUMBER: PCT/US00/04414
PRIOR FILING DATE: 2000-02-22
PRIOR APPLICATION NUMBER: US 60/143,048
PRIOR FILING DATE: 1999-07-07
PRIOR APPLICATION NUMBER: US 60/145,698
PRIOR FILING DATE: 1999-07-26
PRIOR APPLICATION NUMBER: US 60/146,222
PRIOR FILING DATE: 1999-07-28
PRIOR APPLICATION NUMBER: PCT/US99/20594
PRIOR FILING DATE: 1999-09-08
PRIOR APPLICATION NUMBER: PCT/US99/20944
PRIOR FILING DATE: 1999-09-13
PRIOR APPLICATION NUMBER: PCT/US99/21090
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/21547
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/23089
PRIOR FILING DATE: 1999-10-05
PRIOR APPLICATION NUMBER: PCT/US99/28214
PRIOR FILING DATE: 1999-11-29
PRIOR APPLICATION NUMBER: PCT/US99/28313
PRIOR FILING DATE: 1999-11-30
PRIOR APPLICATION NUMBER: PCT/US99/28564
PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/28565
PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/30095
PRIOR FILING DATE: 1999-12-16
PRIOR APPLICATION NUMBER: PCT/US99/30911
PRIOR FILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US99/30999
PRIOR FILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US00/00219
PRIOR FILING DATE: 2000-01-05
NUMBER OF SEQ ID NOS: 423
SEQ ID NO 84
LENGTH: 398
TYPE: PRT
ORGANISM: Homo sapiens
US-09-907-794A-84

Query Match 32.4%; Score 739; DB 4; Length 398;
Best Local Similarity 38.6%; Pred. No. 1.9e-56;
Matches 166; Conservative 73; Mismatches 147; Indels 44; Gaps 9;

Qy 22 PGLRLRLLLLSAAALPTG-----DQNLFTKDVTVIEGEVATISQVKNKSDSVIQL 76
Db 4 PAASLLLLLLLF-ACCWAPGANLSQDSDQWTSDETVAGTTLVKCKQVKDHEDSSLOW 62

Qy 77 LNPNOTIYFRDPRPLKDSRFQLLNFSSSELKVLSTNVISDEGRYFCQLYTDPQESYT 136
Db 63 SNPAQOTLYFGKRALRDNRIQLVSTPHELSISINVALADEGEYTCSTFTMPVRTAKS 122

Qy 137 TITVLVPPRNLMIDIOKDTAVEGEIEVNCETAMASKPATIRWFKGNTELKKGK-SEVEEW 195
Db 123 LVTVLGIPQPIITGYKSSUREKDTATLNCQSSGSKPAARLTWRKQDELHGEPTRIQED 182


```

; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 84
; LENGTH: 398
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-906-700-84

Query Match      32.4%; Score 739; DB 4; Length 398;
Best Local Similarity 38.6%; Pred. No. 1.9e-56;
Matches 166; Conservative 73; Mismatches 147; Indels 44; Gaps 9;

QY 22 PGRRLRLRLLLFSANAALPTG-----DQNLFTKDVTVIEGEVATISCQVNKSDSVIQL 76
DB 4 PAASLLLLLLF-ACCWAPGGANLSQDDSQPMTSDETVAGGTVVLKQCVKDHEDSSLQW 62
QY 77 LNPNRQTYIFRDPRLPKDSRFQLLNFSSELKVLTVNSISDEGRYFCOLVYTDPPQSYT 136
DB 63 SNAQQQLYFGEKRALDRRIQLVTSPTHELISISINVALADEGYTCSTFMPVRTAKS 122
QY 137 TITVLVPPRNLIMIDIQDXTAVEGESEI EVNCTAMASKPATTIRWPKGNTELKKG-SEVEEW 195
DB 123 LVTVLGIPQKPIITGYKSSLRKEDTATLNCQSGSKPAARLTWRKGQDELHGEPTRIQED 182
QY 196 SD--MYTVTSQLMLKVHKEDDGVPIQVEHPAVTG-NLQTORVLEYQVKPVHQLMTYP 252
DB 183 PNGKTFVSSVTPQVTRREDDGASIVCSVNHESLKGDARSTQSRIEVLVYTFAMIRDPDP 242
QY 253 LQGLITREGDALELTCEAIGKPPQPMVWTVVRVDDEMPQHAVLSGPNLFINLNKTDNGTYR 312
DB 243 --HPRREGQKLLHCEGRGNPVPQQLWEK-EGSVPLPKWTQESALITFPFLNKSDSGTYG 298
QY 313 CEASNVGKAHSDVMLVYVDPPTTIPPPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 372
DB 299 CTATSNMGSKYKAYYTLNVNDFS---VPPSSSTY-----VPPSSSTY----- 329
QY 373 DHAVIGGVAVVWFAMLCLLILGLRYFARHKGTFTTHEAKGADDAADATAIINAEGGON 432
DB 330 -HAIIGIVAFIVFELLIMLIFLGHYLRHKGTYLTHEAKGSDPADPADATAIINAEGQS 388
QY 433 NSEKKEYFI 442
DB 389 GGDDKEYFI 398

```

GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.

OM protein - protein search, using sw model

Run on: June 28, 2005, 09:42:27 ; Search time 24.9399 Seconds
(without alignments)
1631.912 Million cell updates/sec

Title: US-10-622-237-4

Perfect score: 2197

Sequence: 1 AAPPGRLRLRLLLLLLSAAL.....TAINAEGGQNNSEKKEYF 423

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 283416 seqs, 96216763 residues

Total number of hits satisfying chosen parameters: 283416

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

PIR 79:.*
1: Pirl:.*
2: Pirl2:.*
3: Pirl3:.*
4: Pirl4:.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | ID | Description |
|------------|-------|-------------|--------|----------|---------------------|
| 1 | 270 | 12.3 | 407 | 2 T08732 | hypothetical prote |
| 2 | 261.5 | 11.9 | 5175 | 2 T20992 | hypothetical prote |
| 3 | 261.5 | 11.9 | 5198 | 2 T43290 | hemikentcin precurs |
| 4 | 246.5 | 11.2 | 467 | 1 HLMSP3 | poliovirus recepto |
| 5 | 244 | 11.1 | 518 | 2 JC4024 | poliovirus recepto |
| 6 | 243 | 11.1 | 530 | 2 A53437 | poliovirus recepto |
| 7 | 238.5 | 10.9 | 538 | 2 J68093 | PRR2 delta - human |
| 8 | 238 | 10.8 | 725 | 2 JE0099 | neural cell adhesi |
| 9 | 237 | 10.8 | 417 | 2 A44194 | poliovirus recepto |
| 10 | 234.5 | 10.7 | 392 | 2 B44194 | poliovirus recepto |
| 11 | 234 | 10.7 | 1088 | 1 IJXLNL | neural cell adhesi |
| 12 | 232.5 | 10.6 | 392 | 1 RWHUPA | poliovirus recepto |
| 13 | 232.5 | 10.6 | 417 | 1 RWHUPA | poliovirus recepto |
| 14 | 231 | 10.5 | 344 | 2 I56551 | neurotrophin - rat |
| 15 | 228.5 | 10.4 | 7962 | 2 I38346 | elastic titin - hu |
| 16 | 226 | 10.3 | 4162 | 2 T42633 | connectin/titin - |
| 17 | 225 | 10.2 | 1011 | 2 T13669 | neuromusculin - fr |
| 18 | 222 | 10.1 | 725 | 2 JE0035 | neural cell adhesi |
| 19 | 222 | 10.1 | 1092 | 1 JN0635 | neural cell adhesi |
| 20 | 220.5 | 10.0 | 338 | 2 JC5519 | 50K glycoprotein p |
| 21 | 220 | 10.0 | 478 | 2 I53960 | PRR2 alpha - human |
| 22 | 217.5 | 9.9 | 345 | 2 S03199 | opioid-binding pro |
| 23 | 215.5 | 9.8 | 345 | 2 JC4025 | opioid-binding cel |
| 24 | 215.5 | 9.8 | 588 | 2 A45254 | surface glycoprote |
| 25 | 214 | 9.7 | 588 | 2 JH0506 | adhesion molecule |
| 26 | 212 | 9.6 | 4391 | 2 A38096 | perlecan precursor |
| 27 | 210.5 | 9.6 | 812 | 2 B42632 | cell adhesion mole |
| 28 | 210.5 | 9.6 | 932 | 2 A42632 | cell adhesion mole |
| 29 | 209.5 | 9.5 | 345 | 2 JC1239 | opioid-binding pro |

| | | | | | | |
|----|-------|-----|------|---|--------|--------------------|
| 30 | 209.5 | 9.5 | 584 | 2 | I50419 | s-glycerin precurs |
| 31 | 207.5 | 9.4 | 646 | 2 | I38049 | cell surface glyco |
| 32 | 206.5 | 9.4 | 338 | 2 | JC4776 | limbic-systen-asso |
| 33 | 206.5 | 9.4 | 862 | 2 | I49583 | differentiation an |
| 34 | 206.5 | 9.4 | 868 | 2 | A46512 | CD22 homolog/B lym |
| 35 | 206 | 9.4 | 847 | 2 | JH0371 | B-cell adhesion pr |
| 36 | 204 | 9.3 | 702 | 2 | A36319 | carcinoembryonic a |
| 37 | 203.5 | 9.3 | 583 | 2 | I39428 | alcam - human |
| 38 | 202 | 9.2 | 1443 | 2 | I50600 | neogenin - chicken |
| 39 | 200.5 | 9.1 | 338 | 2 | JC1238 | opioid-binding pro |
| 40 | 200.5 | 9.1 | 765 | 2 | C42632 | cell adhesion mole |
| 41 | 200 | 9.1 | 587 | 2 | JH0464 | DM-GRASP precursor |
| 42 | 197 | 9.0 | 3707 | 2 | S18252 | heparan sulfate pr |
| 43 | 196.5 | 8.9 | 1241 | 2 | T37190 | nephrin - human |
| 44 | 195 | 8.9 | 1323 | 2 | PN0568 | connectin 3B - chi |
| 45 | 193 | 8.8 | 761 | 1 | IJHUNG | neural cell adhesi |

ALIGNMENTS

RESULT 1

T08732
hypothetical protein DKFZp566B0846.1 - human (fragment)
C;Species: Homo sapiens (man)
C;Date: 11-Jun-1999 #sequence_revision 11-Jun-1999 #text_change 09-Jul-2004
C;Accession: T08732
R;Ottenwaelder, B.; Obermaier, B.; Mewes, H.W.; Gassenhuber, J.; Wiemann, S.
submitted to the Protein Sequence Database, May 1999
A;Reference number: Z16474
A;Accession: T08732
A;Molecule type: mRNA
A;Residues: 1-407 <OTT>
A;Cross-references: UNIPROT:Q9Y412; EMBL:AL050071
A;Experimental source: fetal kidney; clone DKFZp566B0846
C;Genetics:
A;Note: DKFZp566B0846.1

| | | | | | |
|-----------------------|-----|---|--------------------|--------|-----------------|
| Query Match | | 12.3% | Score 270; | DB 2; | Length 407; |
| Best Local Similarity | | 27.0% | Pred. No. 1.2e-11; | | |
| Matches | | 85; | Conservative | 58; | Mismatches 124; |
| | | | | Indels | 48; |
| | | | | Gaps | 13; |
| Qy | 102 | GRFPCQLYDTP--PQSSYTTITVLVPPRLMIDIQDTAVEG--EETEVNCTANASRPAT | 157 | | |
| Db | 2 | GKTYCKAVTPFLGNAOSSTTTVLVEPTVSLIK-GPDSLIDGGNETVAAICIAATGRPVA | 60 | | |
| Qy | 158 | TIRWFKGNKELKGKSEVEWSDMY----TVTSQMLKLVHKDDGVPICOVEHPAVTGN | 212 | | |
| Db | 61 | HIDW-EGD-----LGEMESTTTSFPNETAIIISQYKLPPTFRFARGRRITCVVKIPALEKD | 114 | | |
| Qy | 213 | LOTQRYLEVQKPVQHIQMTYPLQGLTREGDAFELTCEAIKPKQPMVMVWVRVDDMPQH | 272 | | |
| Db | 115 | IRYSFILDIIQYAEVSVTVGYDGNWFVGRKG--VNLKCNADANPPFPKSVMSRLDQWPDG | 172 | | |
| Qy | 273 | AVLSGPNL-FINNINKTDNGTYCEASNIYKHAHSDVNLVYVDDP--TTTTPP-----PTT | 324 | | |
| Db | 173 | LLASDNTLHFVHPLTFNYSGVYICKVTNSLQGRSDQKVIYISDPPTTTTLOPTQWHPST | 232 | | |
| Qy | 325 | TTTTTTTTT-----TTTTITITDSRAGEEGTIGAVDHAVIGGVVAVVFMCLLI- 375 | | | |
| Db | 233 | ADIEDLATEPKKLPFPLSLTLATI-----KDDTIATIIASVVGGLFVILVSVLAGIFC | 285 | | |
| Qy | 376 | -----ILGRYFARH 384 | | | |
| Db | 286 | YRRRTFRGDFYFAKN 300 | | | |

RESULT 2

T20992
hypothetical protein F15G9.4a - Caenorhabditis elegans
C;Species: Caenorhabditis elegans
C;Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 09-Jul-2004
C;Accession: T20992; T24733

R;Sulston, J.
submitted to the EMBL Data Library, December 1994
A;Reference number: Z19355
A;Accession: T20992
A;Status: preliminary; translated from GB/EMBL/DBJ
A;Molecule type: DNA
A;Residues: 1-5175 <WIL>
A;Cross-references: UNIPROT:Q810L3; EMBL:Z47068; PIDN:CAA87335.1; GSPDB:GN000028; CESP:F15G9.4b
R;Kershaw, J.
submitted to the EMBL Data Library, December 1994
A;Reference number: Z19929
A;Accession: T24733
A;Status: preliminary; translated from GB/EMBL/DBJ
A;Molecule type: DNA
A;Residues: 1-5175 <W12>
A;Cross-references: EMBL:Z47070; PIDN:CAA87344.1; GSPDB:GN000028; CESP:F15G9.4a
A;Experimental source: clone T09B9
C;Genetics:
A;Gene: CESP:F15G9.4a
A;Map position: X
A;Introns: 85/1; 120/1; 334/3; 370/1; 477/2; 606/3; 664/1; 935/3; 977/1; 1051/3; 1184/3;
; 2512/2; 2593/3; 2699/3; 2759/1; 2852/1; 2889/3; 2913/3; 2941/1; 2967/3; 2991/3; 3033/1
1; 4225/1; 4361/1; 4408/1; 4456/1; 4498/1; 4647/3; 4838/1; 4879/1; 4941/1; 5011/1; 5077/1
Query Match 11.9%; Score 261.5; DB 2; Length 5175;
Best Local Similarity 24.8%; Pred. No. 1.2e-09;
Matches 87; Conservative 65; Mismatches 130; Indels 71; Gaps 15;
Qy 34 VTVEGEVATISQVNVKSDSVIQLNPNRQTIYFRDRLP-----KDSRFQLNFSSEL 89
Db 2200 VTAIKGALPFKPID--DDK-----NFKGQIILWNYQIDLEAEDARITRL---SNDR 2249
Qy 90 KVSILTVNSISDEGRYFCOLYTDPPQESYT-TITVLVPPRNLMDIOKD-TAVEGEIEVN 147
Db 2250 RLTIILVTENDEQYSCRKVNDAAGNSFDFKATVLVPPPTIIMLDKDKNKTAVESHVTVLS 2309
Qy 148 CTAMASKPATITIRWFKG-----NKLKGKSEVEWSDMYTTSOLMLKVHK 193
Db 2310 CPA-TGKPEPDITWFKDGEAIHIENTADIIPNGELNG-----NQLKITRIK 2354
Qy 194 EDGVPVICOVEHPAVTGNLQTOYLEVQYKQVH-----IQMTYPLQGLTREGDAFELTCE 250
Db 2355 EGDAGKYTCBADNSA--GSVEQDVNVNVTIPKIEKGIPSDYESQ-----QNERVVISCP 2408
Qy 251 AIGKQPQVMVTVRVDDDEMPQHAVL-----SGPNLFNNLNKTDNGTYRCEASNIIVGKAHS 306
Db 2409 VYARP-PAKITWLKAGPLQSDKFVTSANGQKLYLFKLRETDSSKYTCIATNEAGTDKR 2467
Qy 307 DYMLVYVDPPTTIPP-----PTTTTTTTTTTTTTITITITDSRAGE 347
Db 2468 DFKVSMVLVAFSDEPNIVRITVNSGNPSTLHCPAKGSPPTITWLKDGNAIE 2520
RESULT 3
T43290
hemiscentin precursor - Caenorhabditis elegans
C;Species: Caenorhabditis elegans
C;Date: 11-Jan-2000 #sequence_revision 11-Jan-2000 #text_change 09-Jul-2004
A;Accession: T43290; T20993; T24734
R;Vogel, B.E.; Hedgecock, E.M.
submitted to the EMBL Data Library, June 1998
A;Description: Hemiscentin is required for hemidesmosome mediated cell adhesion and germ-
A;Reference number: Z22396
A;Accession: T43290
A;Status: preliminary; translated from GB/EMBL/DBJ
A;Molecule type: mRNA
A;Residues: 1-5198 <VOG>
A;Cross-references: UNIPROT:O76518; EMBL:AF074901; PIDN:AAC26792.1
R;Sulston, J.
submitted to the EMBL Data Library, December 1994
A;Reference number: Z19355
A;Accession: T20993

A;Status: preliminary; translated from GB/EMBL/DBJ
A;Molecule type: DNA
A;Residues: 1-5198 <WIL>
A;Cross-references: EMBL:Z47068; PIDN:CAA87336.1; GSPDB:GN000028; CESP:F15G9.4b
A;Experimental source: clone F15G9
R;Kershaw, J.
submitted to the EMBL Data Library, December 1994
A;Reference number: Z19929
A;Accession: T24734
A;Status: preliminary; translated from GB/EMBL/DBJ
A;Molecule type: DNA
A;Residues: 1-5198 <W12>
A;Cross-references: EMBL:Z47070; PIDN:CAA87345.1; GSPDB:GN000028; CESP:F15G9.4b
A;Experimental source: clone T09B9
C;Genetics:
A;Gene: him-4; F15G9.4b
A;Map position: X
A;Introns: 85/1; 120/1; 334/3; 370/1; 477/2; 606/3; 664/1; 935/3; 977/1; 1051/3; 1184/3;
; 2512/2; 2593/3; 2699/3; 2759/1; 2852/1; 2889/3; 2913/3; 2941/1; 2967/3; 2991/3; 3033/1
1; 4225/1; 4361/1; 4408/1; 4456/1; 4498/1; 4647/3; 4838/1; 4902/1; 4964/1; 5034/1; 5100/1
Query Match 11.9%; Score 261.5; DB 2; Length 5198;
Best Local Similarity 24.8%; Pred. No. 1.2e-09;
Matches 87; Conservative 65; Mismatches 130; Indels 71; Gaps 15;
Qy 34 VTVEGEVATISQVNVKSDSVIQLNPNRQTIYFRDRLP-----KDSRFQLNFSSEL 89
Db 2200 VTAIKGALPFKPID--DDK-----NFKGQIILWNYQIDLEAEDARITRL---SNDR 2249
Qy 90 KVSILTVNSISDEGRYFCOLYTDPPQESYT-TITVLVPPRNLMDIOKD-TAVEGEIEVN 147
Db 2250 RLTIILVTENDEQYSCRKVNDAAGNSFDFKATVLVPPPTIIMLDKDKNKTAVESHVTVLS 2309
Qy 148 CTAMASKPATITIRWFKG-----NKLKGKSEVEWSDMYTTSOLMLKVHK 193
Db 2310 CPA-TGKPEPDITWFKDGEAIHIENTADIIPNGELNG-----NQLKITRIK 2354
Qy 194 EDGVPVICOVEHPAVTGNLQTOYLEVQYKQVH-----IQMTYPLQGLTREGDAFELTCE 250
Db 2355 EGDAGKYTCBADNSA--GSVEQDVNVNVTIPKIEKGIPSDYESQ-----QNERVVISCP 2408
Qy 251 AIGKQPQVMVTVRVDDDEMPQHAVL-----SGPNLFNNLNKTDNGTYRCEASNIIVGKAHS 306
Db 2409 VYARP-PAKITWLKAGPLQSDKFVTSANGQKLYLFKLRETDSSKYTCIATNEAGTDKR 2467
Qy 307 DYMLVYVDPPTTIPP-----PTTTTTTTTTTTTTITITITDSRAGE 347
Db 2468 DFKVSMVLVAFSDEPNIVRITVNSGNPSTLHCPAKGSPPTITWLKDGNAIE 2520
RESULT 4
HLMSP3
poliovirus receptor homolog precursor - mouse
C;Species: Mus musculus domesticus (western European house mouse)
C;Date: 30-Jun-1993 #sequence_revision 30-Jun-1993 #text_change 09-Jul-2004
C;Accession: A38211
R;Morrison, M.E.; Racaniello, V.R.
J. Virol. 66, 2807-2813, 1992
A;Title: Molecular cloning and expression of a murine homolog of the human poliovirus re
A;Reference number: A38211; MUID:92219365; PMID:1560525
A;Accession: A38211
A;Molecule type: DNA
A;Residues: 1-467 <WOR>
A;Cross-references: UNIPROT:P32507; GB:M80206; NID:G159785; PIDN:AAA39734.1; PID:G159786
C;Superfamily: poliovirus receptor; immunoglobulin homology
C;Keywords: duplication; glycoprotein; transmembrane protein
F;1-25/Domain: signal sequence #status predicted <SIG>
F;26-467/Product: poliovirus receptor homolog #status predicted <MAT>
F;26-354/Domain: extracellular #status predicted <EXT>
F;47-133/Domain: immunoglobulin homology <IMM1>
F;167-231/Domain: immunoglobulin homology <IMM2>
F;267-322/Domain: immunoglobulin homology <IMM3>
F;355-374/Domain: transmembrane #status predicted <TMN>

F;375-467/Domain: intracellular #status predicted <INT>
F;54-174-229,274-320/Dissulfide bonds: #status predicted
F;128,138,315/Binding site: carbohydrate (Asn) (covalent) #status predicted

Query Match 11.2%; Score 246.5; DB 1; Length 467;
Best Local Similarity 21.6%; Pred. No. 6.5e-10;
Matches 101; Conservative 72; Mismatches 196; Indels 99; Gaps 16;

QY 4 PGLRLRLRLRLSAAALIPFGDQNLFTKDVTVIEGV-----ATISQV----- 48
DB 14 PTLPLPLPLLLL-----LQETG-AQDVRVRLPEVRGLGTVELPCHLLPPTTTERVSQVT 68
QY 49 -NKSDDSVIQLLNPNRQTIYFRDPLKDSRFOL-----LNFSSELKVLSTNVIS 99
DB 69 WQRLDGTVAFAFHS-----FGVDFPNSQFSDRLSFVRARPETNADRLATLAFGRURVE 124
QY 100 DEGRYFCOLYTDTP--POESTYTTITVLPPRNLMIDIOKTAVEGEIEV-----NCT 149
DB 125 DEGNITCEFATFPNGTRRGVTLRVIAQPN-----HAAEQEVTIGPQSVAVARCV 175
QY 150 AMASKPATTTIRWPKG-NKELKGKSEVEESDMYTVTSQMLMKVHKEDDGPVICOVEHPA 208
DB 176 STGCRPPARITWISSLGAEAKDQEPGIGAGTGTIIISRYSLVPVGRADGVKVTCTRVEHES 235
QY 209 VTGNLQTORVLEYQYKPOVHIQMTYPLQGLTREGDAFELTCEALGKGPQVWVTVVRVDDE 268
DB 236 FEPILLPVTLVSLVRYPEVVIS-GYDDNWYLGKSEAL-LTCDVRSNPEPTDYDMSTTSGV 293
QY 269 MPQHAVLSGPNLFTNNLNKTDNGTYRCEASNIQKSHSDYMLVYVDPPTTPTTTTTT 328
DB 294 FPASAVAQGSQQLVHSDVRMNTTICTATNAVGTGRAEQVILVRDTPQA----- 343
QY 329 TTTTITLTIITDSRAGESTGTGAVDHVIGVAVVFA--MLCLLIILGRYFAHKG 386
DB 344 -----SR-----DVGPLVAGVGTLLVLLLAGGLFALLILGRRRRSPG 384
QY 387 TYFTHAKGADDA-----ADADTAIINAEAGQNNSEKKE 421
DB 385 GGGNDGRGSDYDKPTQVFGNGGVPVWRASPEPMRPDPGRDEDEEEEEE 432

RESULT 5
JC4024
poliovirus receptor-related protein precursor - human
C;Species: Homo sapiens (man)
C;Date: 13-Jun-1995 #sequence_revision 14-Jul-1995 #text_change 05-Nov-1999
R;Lopez, M.; Berle, F.; Mattei, M.G.; Gabert, J.; Birg, F.; Bardin, C.; Dubr
Gene 155, 261-265, 1995
C;Accession: JC4024
A;Title: Complementary DNA characterization and chromosomal localization of a human gene
A;Reference number: JC4024; MUID:95237621; PMID:7721102
A;Accession: JC4024
A;Molecule type: mRNA
A;Residues: 1-518 <LQ>
A;Cross-references: EMBL:X76400; NID:9732795; PIDN:CAA53980.1; PID:9732796
C;Genetics:
A;Gene: GDB:PVRR1
A;Cross-references: GDB:583951
A;Map position: 11q23-11q24
C;Superfamily: poliovirus receptor; immunoglobulin homology
F;31-30/Domain: signal sequence #status predicted <SIG>
F;31-518/Product: poliovirus receptor-related protein #status predicted <MAT>
F;356-379/Domain: transmembrane #status predicted <TM>
F;36,72,82,139,287,308,333/Binding site: carbohydrate (Asn) (covalent) #status predicted

Query Match 11.1%; Score 244; DB 2; Length 518;
Best Local Similarity 25.1%; Pred. No. 1.1e-09;
Matches 104; Conservative 59; Mismatches 155; Indels 96; Gaps 20;

QY 56 IQLANPNRQTIYFRDPLKDSRFQLNFSSELKVLSTNVISDEGRYFCOLYTDTP-- 113
DB 78 VAIINSGVSLAPYR-----ERVEFLRPSFTDITRLSRLEDEGVYICEFATFTGN 133

QY 114 QESYTTITVLVPPRNLMIDIOKD-TAVEGEIEV---NCTAMASKPATTTIRWFKGNKELK 169
DB 134 RESQLNLTWNAKPTNWIETGTVLRKKGQDDKVLVATCTSANGKPPSVSW---ETRLK 190
QY 170 GKSEV--EWSMD--YTVTSQMLMKVHKEDDGPVICOVEHPAVTGNLQTRY-----LE 220
DB 191 GEARVPCDSTPMPVTVISRYRLVPSREAHQOSLACIV-----NYHMDRPKESLTN 243
QY 221 VOYKPOVHIQ---MTYPLQGLTREGDAFELTCEALGKGPQVWVTVVRVDDMPOHVLVG 277
DB 244 VOYEPEVTIEGFDGNNVLRMD-----VKLTCKADANPPATEYHWTTLNGLPKGVEAQN 298
QY 278 PNLFINN-LNKTDNGTYRCEASNIQKSHSDYMLVYVDPPTTPTTPTTTTTTTTTTTI 336
DB 299 RTLFFKGPINSLAGTYICEATNPITRSGQVEVNIETFPYTPSP----- 344
QY 337 LTIITDSRAGEEG-TIGAVDHVIGVAVVFAVVAEMLCLLIILGRYFA---RH--KGYTF 389
DB 345 -----EHGRRAGVPVTAIIGVAGSI---LLVLIVVGIVVALRRRHTFKGDYS 391
QY 390 T-----HEAKG-----DDAADATAIINAEAGQNNSEKKE 421
DB 392 TKHVVYNGYSKAGIQHHPHMAQNLQYPDDSDDEKKA--GPLGSSSYEEEEE 443

RESULT 6
A53437
poliovirus receptor mpvr - mouse
C;Species: Mus musculus (house mouse)
C;Date: 06-Oct-1994 #sequence_revision 18-Nov-1994 #text_change 09-Jul-2004
C;Accession: A53437
R;Aoki, J.; Koike, S.; Ise, I.; Sato-Yoshida, Y.; Nomoto, A.
J. Biol. Chem. 269, 8431-8438, 1994
A;Title: Amino acid residues on human poliovirus receptor involved in interaction with p
A;Reference number: A53437; MUID:94179228; PMID:8132569
A;Accession: A53437
A;Status: preliminary
A;Molecule type: mRNA
A;Residues: 1-530 <AOK>
A;Cross-references: UNIPROT:P32507; GB:D26107; NID:9475017; PIDN:BAA05103.1; PID:9825507
A;Experimental source: C57/BL6, brain
A;Note: sequence extracted from NCBI backbone (NCBIN:146664, NCBI:P:146667)
C;Superfamily: poliovirus receptor; immunoglobulin homology
F;47-133/Domain: immunoglobulin homology <IMM>

Query Match 11.1%; Score 243; DB 2; Length 530;
Best Local Similarity 22.6%; Pred. No. 1.4e-09;
Matches 90; Conservative 61; Mismatches 162; Indels 86; Gaps 14;

QY 4 PGLRLRLRLRLSAAALIPFGDQNLFTKDVTVIEGV-----ATISQV----- 48
DB 14 PTLPLPLPLLLL-----LQETG-AQDVRVRLPEVRGLGTVELPCHLLPPTTTERVSQVT 68
QY 49 -NKSDDSVIQLLNPNRQTIYFRDPLKDSRFOL-----LNFSSELKVLSTNVIS 99
DB 69 WQRLDGTVAFAFHS-----FGVDFPNSQFSDRLSFVRARPETNADRLATLAFGRURVE 124
QY 100 DEGRYFCOLYTDTP--POESTYTTITVLPPRNLMIDIOKTAVEGEIEV-----NCT 149
DB 125 DEGNITCEFATFPNGTRRGVTLRVIAQPN-----HAAEQEVTIGPQSVAVARCV 175
QY 150 AMASKPATTTIRWPKG-NKELKGKSEVEESDMYTVTSQMLMKVHKEDDGPVICOVEHPA 208
DB 176 STGCRPPARITWISSLGAEAKDQEPGIGAGTGTIIISRYSLVPVGRADGVKVTCTRVEHES 235
QY 209 VTGNLQTORVLEYQYKPOVHIQMTYPLQGLTREGDAFELTCEALGKGPQVWVTVVRVDDE 268
DB 236 FEPILLPVTLVSLVRYPEVVIS-GYDDNWYLGKSEAL-LTCDVRSNPEPTDYDMSTTSGV 293
QY 269 MPQHAVLSGPNLFTNNLNKTDNGTYRCEASNIQKSHSDYMLVYVDPPTTPTTTTTT 328
DB 294 FPASAVAQGSQQLVHSDVRMNTTICTATNAVGTGRAEQVILVRDTPQA----- 343

```
Qy 329 TTTTTLTITDSRAGEGTIGAVDHAVIGGVAVVV 367
Db 344 -----AGAGATCG-----IIGGIIIAII 361

RESULT 7
I68093
PRR2 delta - human
C;Species: Homo sapiens (man)
C;Date: 29-May-1998 #sequence_revision 29-May-1998 #text_change 09-Jul-2004
C;Accession: I68093
R;Eberle, F.; Dubreuil, P.; Mattei, M.G.; Devillard, E.; Lopez, M.
Gene 159, 267-272, 1995
A;Title: The human PRR2 gene, related to the human poliovirus receptor gene (PVR), is th
A;Reference number: I53960; MUID:95347610; PMID:7622062
A;Accession: I68093
A;Status: preliminary; translated from GB/EMBL/DBJ
A;Molecule type: mRNA
A;Residues: 1-538 <RES>
A;Cross-references: UNIPROT:Q92692; GB:S79172; NID:g1042204; PID:g1042205
C;Gene: PRR2delta
C;Superfamily: poliovirus receptor; immunoglobulin homology
F;276-331/Domain: immunoglobulin homology <IMM>

Query Match 10.9%; Score 238.5; DB 2; Length 538;
Best Local Similarity 22.8%; Pred. No. 2.9e-09;
Matches 110; Conservative 63; Mismatches 196; Indels 113; Gaps 17;

Qy 2 APPGLRLRLLLLSAALPTGQNLFTKDVTVIEGEVATISCVQNKSDSDSVIQLLNP 61
Db 12 SPPTPLLPWLLLLJL-----LLETG-AQDVRVQVLPVRG-----QLGGIVELPCHLLPP 59
Qy 62 -----NQTIYFRDRPLKDSRF-----QLNFS----- 87
Db 60 VPGLYISLVTWQRPDAPANHQNVA--AAFHPKMGPSFPSPKPGSERLSFVSAKOSTGQDTE 117
Qy 88 -----ELKVSILTNVSIISDEGRYFCQLYTDP--PQESYTTITVLVPPRNLMIDIKDITAVEG 141
Db 118 AELODATLALHGLTVEDEGNYTCEFAFPKGSVRGWTWLRVIAKPN-QAEAKVTFSD 176
Qy 142 EEIEVNTAMASKPATIRWFKG-NKELKGKSEVEESDMYTVTSQLMLKVHREDGQPV 200
Db 177 PTTVALCISKEGRPARISMLSLDWEAKETQVSGTLAGTVTVTSRFTLVPSGRADGTV 236
Qy 201 ICQVEHPAVTGNLTQRYLEVQYKQPVHIQMTVPLQGLTREGDAFELTCAIGKQPMV 260
Db 237 TCKVEHESFEAPALIPVTLVSRVYPPVSVIS-GYDDNMYLGRDIA-TLSCDVRSNPEPTY 294
Qy 261 TWVRVDDMPOHVLGPNLFINLNKTDNGTYRCEASNIYVGRKSHSDYMLYVVDPPPTIP 320
Db 295 DWSTSTGTFPTSAVQGSQVLIHADVSLNFTFVCTVTNAGVGRABEQVIFVRETPTN-- 352
Qy 321 PPTTTTTTTTTTTTTITLITDSRAGEGTIGAVDHAVIGGVAVVAVFAMLCIIILGRY 380
Db 353 -----AGAGATCG-----IIGGIIIAIATAVATGILICR 383
Qy 381 FARHKGTYFTHKAGDAADAD-----TAINAE-----GGQNNSEKKE 421
Db 384 QORKEQT-----LOGAEDEDELGPPSKPPTPKAKLEAQEMPSQLPTLGASEHSLKTP 438
Qy 422 YF 423
Db 439 YF 440

RESULT 8
JE0099
neural cell adhesion molecule 1 - African clawed frog
N;Alternate names: N-CAM 1
C;Species: Xenopus laevis (African clawed frog)
C;Date: 19-May-1998 #sequence_revision 29-May-1998 #text_change 09-Jul-2004
```

```
C;Accession: JE0099
R;Kudo, M.; Takayama, E.; Tadakuma, T.; Shiohawa, K.
Biochem. Biophys. Res. Commun. 245, 127-132, 1998
A;Title: Molecular cloning of ssd-form neural cell adhesion molecules (N-CAMs) as the ma
A;Reference number: JE0099; MUID:98204770; PMID:9535795
A;Accession: JE0099
A;Molecule type: mRNA
A;Residues: 1-725 <KUD>
A;Cross-references: UNIPROT:O73633; DBJ:AB008162; NID:g3116226; PIDN:BAA25931.1; PID:g31
A;Experimental source: heart
C;Comment: This protein mediates and regulates various cell-cell interactions through bot
C;Superfamily: neural cell adhesion molecule; fibronectin type III repeat homology; immu
F;413-475/Domain: immunoglobulin homology <IMM>
F;512-589/Domain: fibronectin type III repeat homology <3FR>

Query Match 10.8%; Score 238; DB 2; Length 725;
Best Local Similarity 26.2%; Pred. No. 4.5e-09;
Matches 89; Conservative 61; Mismatches 148; Indels 42; Gaps 15;

Qy 32 KDVTVEGEVATISC--OVN---KSDSDSVIQLLN---PNROTIVFRDPRPLKDSRFOL 81
Db 199 KDQIVVNPPTIQARQLRVNATAKMAESVLSCDADGPDPEISWLKKEPIEDGE-EK 257
Qy 82 LNFSSSELKVSILTNVSIISDEGRYFCQLYTDPPOQSYTTITVLVPPRNLMIDIKDITAVEG 141
Db 258 ISFNEQDQSEMTIHVEKDEAEYSC-IANNQAGEAEATILLKYVAKPKITYVENKTAVEL 316
Qy 142 EEIEVNTAMASKPATIRWFKGKE-----LKGSEVEESDMYTVTSQLMLKVHKE 194
Db 317 DEITLCEA-SGDPIFISITWRTAVRNISSEATTLDGHIYVKEHRM-----SALTLDKIQY 371
Qy 195 DCGVPVICQVEHPAVTGNLTQRYLEVQYKQPVHIQMTVPLQGLTREGDAFELTCEAIGK 254
Db 372 TDAGEVFCIASNP-IGVDMQAM-YFEVQYAPKIR----GPVVVYTWEGNPNVITCEFAH 425
Qy 255 PQPMVMTVVRVDDMPOH-----AVLSGP---NLFINLNKTDNGTYRCEASNIYVGRKSH 306
Db 426 PR-AAVTWFRDGLPSSNFSNIKYSGPTSSSLEVPDSEDFGNVCTAINTIGHEFS 484
Qy 307 DYMLYVVDPTTTPPTTTTTTTTTTTTTTTTTTTTTITLITDSRAG 346
Db 485 EFILVQADTFSS---PAIRKVEPYSTVMIVFDEPDSGTG 521

RESULT 9
A44194
poliovirus receptor (clone AGM-alpha-1) - green monkey
C;Species: Cercopithecus aethiops (green monkey, grivet)
C;Date: 30-Sep-1993 #sequence_revision 30-Sep-1993 #text_change 09-Jul-2004
C;Accession: A44194
R;Koike, S.; Ise, I.; Sato, Y.; Yonekawa, H.; Gotoh, O.; Nomoto, A.
J. Virol. 66, 7059-7066, 1992
A;Title: A second gene for the African green monkey poliovirus receptor that has no putat
A;Reference number: A44194; MUID:93059651; PMID:1331508
A;Accession: A44194
A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-417 <KOI>
A;Cross-references: UNIPROT:P32506; GB:S48777
C;Superfamily: poliovirus receptor; immunoglobulin homology
C;Keywords: transmembrane protein
F;259-314/Domain: immunoglobulin homology <IMM>

Query Match 10.8%; Score 237; DB 2; Length 417;
Best Local Similarity 23.8%; Pred. No. 2.7e-09;
Matches 107; Conservative 68; Mismatches 194; Indels 80; Gaps 18;

Qy 1 AAPPLRLRLLLLSAALIPGQNLFTKDVTV--IEGEVATISC--QVANKSDSDSVI 56
Db 8 AWPP-----LLLTLELSWPPPTGDIIVQATQVPGFLGSDSVTLFCYLVQVGMETHV 61
Qy 57 QLLNPNR-----QTIYFRDRPLKDSRFQLLNFSSELKVSILTNVSI-----ISDEGRY 104
```

```
Db 62 SQTWSRHGSGMAVPHQTGPNYSBPKRLEFVAARLGTGLRDLASLRMFGLRVEDSGNY 121
Qy 105 FCQLYTDPPOESYTT---ITVLVPRNLMDIQKDQAVEGEIEIV-NCTAMASKPATIR 160
Db 122 TC-LFVTFPQGSRSVDIWLRLAKPON-TAEVQK-VQLTGKVPVAVCVSTGGRPPAHIT 178
Qy 161 WFKGNKELKGKSEVEE---WSDMYTTSQMLKVKHKDDGVPVICOVEHPAVTGNLQQT 216
Db 179 W---HSLDGMPTNSQAPFLSGTIVTSLWILVPSQVDGKSVTKVHESFEKPOLLT 235
Qy 217 RYLEVQYKPOVHIQMTYPLQGLTREGDAFELTCEAIGKPOPMVMTWVRVDEMPQHAVLS 276
Db 236 VNLTVYVPEVSIS-GYDNNWYLSQNEA-TLTCDARSNPBPTGYNWSTTGMPLPPFAVAQ 293
Qy 277 GPNLFINLNKTDNGTVRCASNIVGKAHSDYMLYVDDPTTTPPTTTTTTTTTTTTTTI 336
Db 294 GAQLLIRPDKPINTTFICNVTNAGARQAEITVQVKEGPPSEPS----- 338
Qy 337 LTIITDSRAGEGTIGAVDHAVIGGVVAVFAMLCILLLIILGRYFARHKT---YFTH 392
Db 339 -----GMSNIIIFLIIGIVI---LTLGLIGVIFYRSRCSREFLMCHHL 380
Qy 393 AKGADDAADATAIINAEGGQNNSEKKE 421
Db 381 SPSEEHASA-----SANGYISYSDVSRE 404

RESULT 10
B44194
poliovirus receptor (clone AGM-delta-1) - green monkey
C:Species: Cercopithecus aethiops (green monkey, grivet)
C>Date: 30-Sep-1993 #sequence_revision 30-Sep-1993 #text_change 09-Jul-2004
C:Accession: B44194
R:Koike, S.; Ise, I.; Sato, Y.; Yonekawa, H.; Gotoh, O.; Nomoto, A.
J. Virol. 66, 7059-7066, 1992
A:Title: A second gene for the African green monkey poliovirus receptor that has no puta
A:Reference number: A44194; MUID:93059651; PMID:1331508
A:Accession: B44194
A>Status: preliminary
A:Molecule type: DNA
A:Residues: 1-392 <KOI>
A:Cross-references: UNIPROT:P32506; GB:S48817
C:Superfamily: poliovirus receptor; immunoglobulin homology
F:259-314/Domain: immunoglobulin homology <IMM>

Query Match 10.7%; Score 234.5; DB 2; Length 392;
Best Local Similarity 24.4%; Pred. No. 3.7e-09;
Matches 100; Conservative 58; Mismatches 180; Indels 71; Gaps 16;

Qy 1 AAPGLRLRLLLLLLAAALIPGTGGQNLFTKQVTV--IGEVAATISC--QVKNSSDSDVI 56
Db 8 AWPP-----LLTLLELSWPPPGTGDIIVQAPTQVPGLGDSVTLPCYLQVPGMEETHV 61
Qy 57 QLLNPNR-----QTIYFRDRLKDSRFLNNESSSELKVLTVNS-----ISDSGRY 104
Db 62 SQTWSRHGSGMAVPHQTGPNYSBPKRLEFVAARLGTGLRDLASLRMFGLRVEDSGNY 121
Qy 105 FCQLYTDPPOESYTT---ITVLVPRNLMDIQKDQAVEGEIEIV-NCTAMASKPATIR 160
Db 122 TC-LFVTFPQGSRSVDIWLRLAKPON-TAEVQK-VQLTGKVPVAVCVSTGGRPPAHIT 178
Qy 161 WFKGNKELKGKSEVEE---WSDMYTTSQMLKVKHKDDGVPVICOVEHPAVTGNLQQT 216
Db 179 W---HSLDGMPTNSQAPFLSGTIVTSLWILVPSQVDGKSVTKVHESFEKPOLLT 235
Qy 217 RYLEVQYKPOVHIQMTYPLQGLTREGDAFELTCEAIGKPOPMVMTWVRVDEMPQHAVLS 276
Db 236 VNLTVYVPEVSIS-GYDNNWYLSQNEA-TLTCDARSNPBPTGYNWSTTGMPLPPFAVAQ 293
Qy 277 GPNLFINLNKTDNGTVRCASNIVGKAHSDYMLYVDDPTTTPPTTTTTTTTTTTTTTI 336
Db 294 GAQLLIRPDKPINTTFICNVTNAGARQAEITVQVKEGPPSEPS----- 338
```

```
Qy 337 LTIITDSRAGEGTIGAVDHAVIGGVVAVFAMLCILLLIILGRYFARHK 385
Db 339 -----GMSNIIIFLIIGIVI---LTLGLIGVIFYRSR 369

RESULT 11
IJXLNL
neural cell adhesion molecule long domain form precursor - African clawed frog
N/Alternate names: NCAM-180
N/Contains: neural cell adhesion molecule, short domain form (NCAM-140)
C:Species: Xenopus laevis (African clawed frog)
C>Date: 31-Mar-1993 #sequence_revision 31-Mar-1993 #text_change 09-Jul-2004
C:Accession: S09600
R:Krieg, P.A.; Sakaguchi, D.S.; Kintner, C.R.
Nucleic Acids Res. 17, 10321-10335, 1989
A:Title: Primary structure and developmental expression of a large cytoplasmic domain fo
A:Reference number: S09600; MUID:90098871; PMID:2481269
A:Accession: S09600
A:Molecule type: mRNA
A:Residues: 1-1088 <KRI>
A:Cross-references: UNIPROT:P16170; EMBL:M25696; NID:G214609; PIDN:AAA49909.1; PID:G2146
A>Note: the authors translated the codon AAA for residue 970 as Leu
C:Comment: NCAM mediates cell-cell adhesion via homophilic binding with another NCAM mol.
C:Comment: Several forms of NCAM are produced by alternative splicing.
C:Genetics:
A:Gene: NCAM
C:Superfamily: neural cell adhesion molecule; fibronectin type III repeat homology; immu.
C:Keywords: alternative splicing; brain; cell adhesion; duplication; heparin binding; si
F:1-19/Domain: signal sequence #status predicted <SIG>
F:20-1088/Product: neural cell adhesion molecule, long domain form #status predicted <LD
F:20-803,1050-1088/Product: neural cell adhesion molecule, short domain form #status pre
F:20-705/Domain: extracellular #status predicted <EXT>
F:34-95/Domain: immunoglobulin homology <IMM1>
F:129-188/Domain: immunoglobulin homology <IMM2>
F:149-153/Region: heparin binding #status predicted
F:158-162/Region: heparin binding #status predicted
F:225-284/Domain: immunoglobulin homology <IMM3>
F:317-381/Domain: immunoglobulin homology <IMM4>
F:413-475/Domain: immunoglobulin homology <IMM5>
F:512-589/Domain: fibronectin type III repeat homology <FN3A>
F:618-679/Domain: fibronectin type III repeat homology <FN3B>
F:706-723/Domain: transmembrane #status predicted <TM>
F:724-1088/Domain: intracellular #status predicted <INT>
F:41-93,136-186,232-282,323-379,420-473/Disulfide bonds: #status predicted
F:219,310,341,417,443,472/Binding site: carbohydrate (Asn) (covalent) #status predicted

Query Match 10.7%; Score 234; DB 1; Length 1088;
Best Local Similarity 25.9%; Pred. No. 1.5e-08;
Matches 88; Conservative 62; Mismatches 148; Indels 42; Gaps 15;

Qy 32 KDVTVEGEVATISC---QVKNKS---DQSVIQLLN-----ENRQTIYFRDRLKDSRFQL 81
Db 199 KDIQVIVNVPPTIQARQLRVNATANMAESVVLSCDADGFPDPEISLWLGKGEPIEDGE-EK 257
Qy 82 LNFSSSELKVLTVNSISDEGRYFCQLYTDPPOESYTTITVLVPRNLMDIQKDQAVEG 141
Db 258 ISFNDQSEMTIHVKKDEAEATYSC-IANNQAGEAEATILLKVKYAKPKITVYENKTAVEL 316
Qy 142 EETEVNCTAMASKPATIRWFKGNKE-----LKGKSEVEESDMYTVTSQMLKVKHKE 194
Db 317 DEITLTCFA-SGDIPISTWRTAVRNISSEATLDGHIVVKEHIRM-----SALTLDKIQY 371
Qy 195 DGGVPVICQVEHPAVTGNLQRYLEVQYKPOVHIQMTYPLQGLTREGDAFELTCEAIGK 254
Db 372 TDAGEYFCIASNP-IGVDMQAM-YFEVQYAPKIR---GFWVVYTWEGNPWITCEVFAH 425
Qy 255 PQPMVMTWVRVDEMPQH-----AVLSGP---NLFINLNKTDNGTVRCASNIVGKAHS 306
Db 426 PR-AAVTWFRDQQLPSSNFSNFKIYSGPTSSSLEVPDSENDFGNCTAINTIGHEFS 484
Qy 307 DYMLYVYDPTTTPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTILITDSRAG 346
Db 485 EFILVQADTPSS----PAIRKVEPYSSTVMIVFDEPDSTGG 521
```


Db 242 YPEVSIIS-GYDNNWYLQNEA-TLTCARSNPPTGYNWSTMGPLPPFAVAQAQLLI 299
Qy 283 NNLNKTONGYRCASNIHVKAHSDYMLYVDPPTTIPPTTTTTTTTTTTTTTTTTITD 342
Db 300 RPVDKPTINTTLCNVNTALGARQELAVQVKE-----GPFSEHS----- 338
Qy 343 SRAGEGTIGADHVAIGGVVAVFAMCLLLIILGRYF 381
Db 339 -----GMSRNAILFLVLGILVF---LILGIGIYF 365

RESULT 14
I56551
neurotrophin - rat
C:Species: Rattus norvegicus (Norway rat)
C>Date: 26-Jul-1996 #sequence_revision 26-Jul-1996 #text_change 09-Jul-2004
C:Accession: I56551
R:Struyk, A.F.; Canoll, P.D.; Wolfgang, M.J.; Rosen, C.L.; D'Eustachio, P.; Salzer, J.L.
J. Neurosci. 15, 2141-2156, 1995
A:Title: Cloning of neurotrophin defines a new subfamily of differentially expressed neur
A:Reference number: I56551; MUID:95198094; PMID:7891157
A:Accession: I56551
A:Status: preliminary; translated from GB/EMBL/DBJ
A:Molecule type: mRNA
A:Residues: 1-344 <RES>
A:Cross-references: UNIPROT:Q62718; EMBL:U16845; NID:9755184; PIDN:AAAG7445.1; PID:g7551
C:Superfamily: carcinoembryonic antigen; carcinoembryonic antigen precursor amino-termin

Query Match 10.5%; Score 231; DB 2; Length 344;
Best Local Similarity 26.2%; Pred. No. 5.5e-09;
Matches 85; Conservative 56; Mismatches 134; Indels 50; Gaps 15;

Qy 10 LLLLLSAALIPFG-----DQNLFTK---DVTVIEGATISCQVKNKSDSDSVIQLNPN 62
Db 14 LVVSLRLFLVPTGVPVRSGDATFPKAMDVTVRQGESATLRCTI---DNRVTRVAWLN 70
Qy 63 RQTI-YFRDPRPLKDSRFOLLNSSLKSLVSLNLSISDEGRYFCQLYTD-PPQESYTTI 120
Db 71 RSTILYAGNDKWLCDPRVLLSNTQTSYEQIENVVDYDEGPTCVQTDNHPKTSRVHL 130
Qy 121 TLVLPPLNLMIDIQOTAV-EGEEIEVNTAMASKPATTIRWFKGNKELKGKSEVEWSD 179
Db 131 IVQVSPK--IVEISSDISINEGNNISLTCTA-TGRPEPTVTRHISPKAVGFVSEDEYLE 187
Qy 180 MYTTSOLMLKVH---KEDGVPVICQVEHPAVTGNLQORYLEVQYKPVQHIQMTYPLQ 236
Db 188 IQGITREQSGEYECASNDVAAPVVRVN-----VTVNYPPVIS-----EAK 229
Qy 237 GL-TREGDAFELCEAIGKQPQVMTVVRVDDMPQ-----HAVLSGPNLFINLN 286
Db 230 GTGVPVGQKGTLOCEASAVFS-AEFQWFKDDKRLVEGKGVKVENRPFSLRTFF--NVS 286
Qy 287 KTDNGTYRCEASNIHVKAHSDYMLY 311
Db 287 EHDYGNVTCVASNKLGHNTASIMLF 311

RESULT 15
I38346
elastic titin - human (fragment)
C:Species: Homo sapiens (man)
C>Date: 29-May-1998 #sequence_revision 29-May-1998 #text_change 09-Jul-2004
C:Accession: I38346
R:Labat, S.; Kolmerer, B.
Science 270, 293-296, 1995
A:Title: Titins: giant proteins in charge of muscle ultrastructure and elasticity.
A:Reference number: A57430; MUID:96026330; PMID:7569978
A:Accession: I38346
A:Status: preliminary; translated from GB/EMBL/DBJ
A:Molecule type: mRNA
A:Residues: 1-7962 <RES>
A:Cross-references: UNIPROT:Q10465; EMBL:X90569; NID:gl017426; PIDN:CAA62189.1; PID:gl01
C:Genetics:

A:Gene: GDB:TTN
A:Cross-references: GDB:127867; OMIM:188840
A:Map position: 2q31-2q31

Query Match 10.4%; Score 228.5; DB 2; Length 7962;
Best Local Similarity 26.1%; Pred. No. 4.4e-07;
Matches 80; Conservative 55; Mismatches 130; Indels 41; Gaps 13;

Qy 35 TVIEGEVATISCQVKNKSDSVIQ---LLN-----PNRQTIYFRDPRPLKDSRFOLLNF 84
Db 770 TVLDRDIAPEFTKPLRNVDVSVNGTCRLDCKIAGSLPMRVS-WFKDGKEIAASDRYRIAF 828
Qy 85 SSSELKVSLSLTVNSISDEGRYFCQLYTD-PPQESYTTITVLVPPRNLMIDIQKDTAVSGEE 143
Db 829 VEGTASLEIRVDNNDAGNFTCRATNSVGSKSGALIVQEPSPFVTKPGSKD-VLPESA 887
Qy 144 IEVNTAMASKPATTIRWFKGNKELKG-----KSEVEWSDMYTTSOLMLKVHKEDD 196
Db 888 VCLKSTFQGSTP-LTIRWFKGNKELVSGGSCYITKEALESLELYLV-----KTSD 937
Qy 197 GVPVICQVEHPAVTGNLQORYLEVQYKPVQHIQMTYPLQGLTREGDAFELTCEAIGKPQ 256
Db 938 SGTYTCKVSN--VAGGVECSANLFVK-EPATFVEKLEPSQ-LLKKGDATQLACKVVTGTP- 992
Qy 257 PVMVTWRVDDMPQHA-----VLSGPNLFINLNKTDNGTYRCEASNIHVKAHSDYML 310
Db 993 PIKITWFANDREIKESSKHRMSFVESTAVLRLTLDVGIEDSGEYVCEAQNAGSDHCSSIV 1052
Qy 311 VYVDPP 316
Db 1053 IVKESP 1058

Search completed: June 28, 2005, 09:54:47
Job time : 26.9399 secs

THIS PAGE BLANK (USPTO)

GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.

OM protein - protein search, using sw model

Run on: June 28, 2005, 09:38:22 ; Search time 106.117 Seconds
(without alignments)
2041.237 Million cell updates/sec

Title: US-10-622-237-4
Perfect score: 2197
Sequence: 1 AAPPGLRLRLRLLSAAL.....TAINAEGGQNNSEKKEYP 423

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5
Searched: 1612378 seqs, 512079187 residues

Total number of hits satisfying chosen parameters: 1612378

Minimum DB seq length: 0
Maximum DB seq length: 2000000000
Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : UniProt 03.1*
1: uniprot_sprot.*
2: uniprot_trembl.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | DB ID | Description |
|------------|--------|-------------|--------|----------|---------------------|
| 1 | 2197 | 100.0 | 445 | 2 Q8R4L1 | Q8r4l1 mus musculus |
| 2 | 2193 | 99.8 | 445 | 2 Q8K3T6 | Q8k3t6 mus musculus |
| 3 | 2176.5 | 99.1 | 456 | 2 Q8R5M8 | Q8r5m8 mus musculus |
| 4 | 2166 | 98.6 | 442 | 2 Q9BY67 | Q9by67 homo sapien |
| 5 | 2138.5 | 97.3 | 476 | 2 Q6AYP5 | Q6ayp5 rattus norv |
| 6 | 2048.5 | 93.2 | 428 | 2 Q6F3J3 | Q6f3j3 mus musculus |
| 7 | 2027 | 92.3 | 417 | 2 Q7TNL1 | Q7tnl1 mus musculus |
| 8 | 2020.5 | 92.0 | 443 | 2 Q8N2F4 | Q8n2f4 homo sapien |
| 9 | 1631 | 74.2 | 336 | 2 Q8OVG4 | Q8ovg4 mus musculus |
| 10 | 1631 | 74.2 | 336 | 2 Q9D6E7 | Q9d6e7 mus musculus |
| 11 | 1615 | 73.5 | 333 | 2 Q86WB8 | Q86wb8 homo sapien |
| 12 | 1546 | 70.4 | 295 | 2 Q9Z2H8 | Q9z2h8 mus musculus |
| 13 | 1513.5 | 68.9 | 306 | 2 Q9QYL4 | Q9qyl4 mus musculus |
| 14 | 1493 | 68.0 | 295 | 2 Q9QYL6 | Q9qyl6 mus musculus |
| 15 | 1404 | 63.9 | 289 | 2 Q9QYL5 | Q9qyl5 mus musculus |
| 16 | 1380.5 | 62.8 | 278 | 2 Q9QYL3 | Q9qyl3 mus musculus |
| 17 | 897 | 40.8 | 435 | 2 Q8N3J6 | Q8n3j6 homo sapien |
| 18 | 895 | 40.7 | 437 | 2 Q8I2P8 | Q8i2p8 homo sapien |
| 19 | 869.5 | 39.6 | 433 | 2 Q8DJ83 | Q8dj83 xenopus tro |
| 20 | 864 | 39.3 | 404 | 2 Q8BLQ9 | Q8blq9 mus musculus |
| 21 | 860 | 39.1 | 404 | 2 Q8BYP1 | Q8byp1 mus musculus |
| 22 | 857 | 39.0 | 395 | 2 Q8BXJ7 | Q8bxj7 m mus muscu |
| 23 | 854 | 38.9 | 395 | 2 Q8BZP4 | Q8bzp4 mus musculus |
| 24 | 826.5 | 37.6 | 405 | 2 Q6PFK4 | Q6pfk4 brachydanio |
| 25 | 800 | 36.4 | 394 | 2 Q7ZXX1 | Q7zxx1 xenopus lae |
| 26 | 798.5 | 36.3 | 390 | 2 Q66KX2 | Q66kx2 xenopus lae |
| 27 | 766.5 | 34.9 | 388 | 2 Q8NF28 | Q8nf28 homo sapien |
| 28 | 757.5 | 34.5 | 388 | 2 Q8R4F4 | Q8r4f4 mus musculus |
| 29 | 739.5 | 33.7 | 396 | 2 Q9N2N8 | Q9n2n8 m nectin-li |
| 30 | 732.5 | 33.3 | 388 | 2 Q8N126 | Q8n126 homo sapien |
| 31 | 730.5 | 33.2 | 381 | 2 Q9Y4A4 | Q9y4a4 homo sapien |

| | | | | | |
|----|-------|------|-----|----------|---------------------|
| 32 | 715.5 | 32.6 | 432 | 2 Q9UJL1 | Q9ujl1 homo sapien |
| 33 | 648.5 | 29.5 | 231 | 2 Q6S8Q7 | Q6s8q7 homo sapien |
| 34 | 413 | 18.8 | 84 | 2 Q6MZK6 | Q6mzk6 homo sapien |
| 35 | 389 | 17.7 | 177 | 2 Q6NUR8 | Q6nur8 homo sapien |
| 36 | 371.5 | 16.9 | 163 | 2 Q8KIH8 | Q8kih8 mus musculus |
| 37 | 362.5 | 16.5 | 163 | 2 Q9NVJ5 | Q9nvj5 homo sapien |
| 38 | 360.5 | 16.4 | 152 | 2 Q8BSQ8 | Q8bsq8 mus musculus |
| 39 | 337.5 | 15.4 | 549 | 2 Q9D006 | Q9d006 mus musculus |
| 40 | 334.5 | 15.2 | 549 | 2 Q9JLB9 | Q9jlb9 mus musculus |
| 41 | 325.5 | 14.8 | 549 | 2 Q9NQS3 | Q9nq3 homo sapien |
| 42 | 323 | 14.7 | 234 | 2 Q8I2Q9 | Q8izg9 homo sapien |
| 43 | 303.5 | 13.8 | 438 | 2 Q9JLB7 | Q9jlb7 mus musculus |
| 44 | 303.5 | 13.8 | 510 | 2 Q9JLB8 | Q9jlb8 mus musculus |
| 45 | 283 | 12.9 | 439 | 2 O57349 | O57349 gallus gall |

ALIGNMENTS

RESULT 1
Q8R4L1 ID Q8R4L1 PRELIMINARY; PRT; 445 AA.
AC Q8R4L1;
DT 01-JUN-2002 (TrEMBLrel. 21, Created)
DT 01-JUN-2002 (TrEMBLrel. 21, Last sequence update)
DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
DE Tumor suppressor in lung cancer 1.
GN Name=Igsf4a;
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=129/SVJ;
RX MEDLINE=2226620; PubMed=12242005; DOI=10.1016/S0378-1119(02)00835-1;
RA Fukami T., Satoh H., Fujita E., Maruyama T., Fukuhara H.,
RA Kuramochi M., Takamoto S., Momoi T., Murakami Y.;
RT "Identification of the Telc1 gene, a mouse orthologue of the human
RT tumor suppressor TSLC1 gene.";
RL Gene 295:7-12(2002).
DR EMBL; AF434663; AAL86736.1; -.
DR MGD; MGI:1889272; Igsf4a.
DR GO; GO:0016021; C:integral to membrane; TAS.
DR GO; GO:0045202; C:synapse; IDA.
DR GO; GO:0008021; C:synaptic vesicle; IDA.
DR GO; GO:0005151; F:protein binding; IPI.
DR GO; GO:0016338; P:calcium-independent cell-cell adhesion; IDA.
DR GO; GO:0007155; P:cell adhesion; IDA.
DR GO; GO:0007416; P:synaptogenesis; IDA.
DR InterPro; IPR007110; Ig-like.
DR InterPro; IPR003598; Ig C2.
DR InterPro; IPR003585; Neurexin-like.
DR Pfam; PF00047; ig; 2.
DR SMART; SM00294; 4.im; 1.
DR SMART; SM00408; IGC2; 1.
DR PROSITE; PS00835; IG_LIKE; 3.
SQ SEQUENCE 445 AA; 48664 MW; C5D5A070DAF70E55 CRC64;

| | | | | | | | |
|-----------------------|---------|--|-----------|------------|-----|--------|------|
| Query Match | 100.0%; | Score | 2197; | DB | 2; | Length | 445; |
| Best Local Similarity | 100.0%; | Pred. No. | 4.1e-149; | | | | |
| Matches | 423; | Conservative | 0; | Mismatches | 0; | Indels | 0; |
| Qy | 1 | AAPPGLRLRLRLLSAAL | IPG | DG | GN | LK | VT |
| Db | 22 | AAPPGLRLRLRLLSAAL | IPG | DG | GN | LK | VT |
| Qy | 61 | PNRQTIYFRDPRPKDSRFOLLNFSSELKSLVSLTNVSI | DE | GR | YFC | LY | TD |
| Db | 82 | PNRQTIYFRDPRPKDSRFOLLNFSSELKSLVSLTNVSI | DE | GR | YFC | LY | TD |
| Qy | 121 | TVLVPPLNLMIDKQUTAVEGEIEVNC | TAK | SP | AT | IN | FW |

| | | | | | |
|--|--|-------------------------------|----------------------------------|------------------|-----|
| Db | 142 | TVLVPPRLMIDIQKDTAVEGEIEVNC | TAMASKPATTIRWF | KGKELKGKSEVEWSDM | 201 |
| Qy | 181 | YTVTSQMLKVKHEDDGVPIQVEHPAVTGN | LTQRYLEVQYKPVQVHIQMTYPLQGLTR | 240 | |
| Db | 202 | YTVTSQMLKVKHEDDGVPIQVEHPAVTGN | LTQRYLEVQYKPVQVHIQMTYPLQGLTR | 261 | |
| Qy | 241 | EGDAFELTCEAIGKPKQPVMTVVRVDD | EMPOHVLSPGNLFINNKNKTNGTYRCEASNI | 300 | |
| Db | 262 | EGDAFELTCEAIGKPKQPVMTVVRVDD | EMPOHVLSPGNLFINNKNKTNGTYRCEASNI | 321 | |
| Qy | 301 | VGAHSDYMLYVYDPTTIPPTTTTTTTTT | TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT | 360 | |
| Db | 322 | VGAHSDYMLYVYDPTTIPPTTTTTTTTT | TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT | 381 | |
| Qy | 361 | GVVAVVVFAMLCIIILGRYFARHKGT | YFTHAEKAGDAADADATAIINAE | GGQNNSEKK | 420 |
| Db | 382 | GVVAVVVFAMLCIIILGRYFARHKGT | YFTHAEKAGDAADADATAIINAE | GGQNNSEKK | 441 |
| Qy | 421 | EYF | 423 | | |
| Db | 442 | EYF | 444 | | |
| RESULT 2 | | | | | |
| ID | Q8K3T6 | PRELIMINARY; | PRT; | 445 AA. | |
| AC | Q8K3T6; | | | | |
| DT | 01-OCT-2002 (T-EMBLrel. 22, Created) | | | | |
| DT | 01-OCT-2002 (T-EMBLrel. 22, Last sequence update) | | | | |
| DT | 25-OCT-2004 (T-EMBLrel. 28, Last annotation update) | | | | |
| DE | Synaptic cell adhesion molecule 1 (RA175 isoform c). | | | | |
| GN | Name=Igsf4a; Synonyms=RA175; | | | | |
| OS | Mus musculus (Mouse). | | | | |
| OC | Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; | | | | |
| OC | Mammalia; Euthera; Rodentia; Sciurognathi; Muridae; Murinae; Mus. | | | | |
| OX | NCBI_TaxID=10090; | | | | |
| RN | [1] | | | | |
| RP | SEQUENCE FROM N.A. | | | | |
| RC | STRAIN=C57BL; | | | | |
| RX | MEDLINE=2192378; PubMed=12202822; DOI=10.1126/science.1072356; | | | | |
| RA | Biedler T., Sara Y., Mzhayeva M., Atasoy D., Liu X., Kavalali E.T., | | | | |
| RA | Sudhof T.C.; | | | | |
| RT | "SynCAM, a Synaptic Adhesion Molecule That Drives Synapse Assembly." | | | | |
| RL | Science 297:1525-1531(2002). | | | | |
| RN | [2] | | | | |
| RP | SEQUENCE FROM N.A. | | | | |
| RA | Fujita E., Aikawa K., Momoi T.; | | | | |
| RL | Submitted (JUL-2004) to the EMBL/GenBank/DBJ databases. | | | | |
| DR | EMBL; AF539424; AAN01614.1; -. | | | | |
| DR | EMBL; AB183399; BAD30018.1; -. | | | | |
| DR | MGI; MGI:1889272; Igsf4a. | | | | |
| DR | GO; GO:0016021; C:integral to membrane; TAS. | | | | |
| DR | GO; GO:0045202; C:synapse; IDA. | | | | |
| DR | GO; GO:0008021; C:synaptic vesicle; IDA. | | | | |
| DR | GO; GO:0005515; F:protein binding; IPI. | | | | |
| DR | GO; GO:0016338; P:calcium-independent cell-cell adhesion; IDA. | | | | |
| DR | GO; GO:0007155; P:cell adhesion; IDA. | | | | |
| DR | GO; GO:0007416; P:synaptogenesis; IDA. | | | | |
| DR | InterPro; IPR007110; Ig-like. | | | | |
| DR | InterPro; IPR003598; Ig C2. | | | | |
| DR | InterPro; IPR003585; Neurexin-like. | | | | |
| DR | PFam; PF00047; ig; 2. | | | | |
| DR | SMART; SM00294; 4.1m; 1. | | | | |
| DR | SMART; SM00408; IGC2; 1. | | | | |
| DR | PROSITE; PS50835; IG-LIKE; 3. | | | | |
| SQ | SEQUENCE 445 AA; 48666 MW; 5B336F23F1877497 CRC64; | | | | |
| Query Match 99.8%; Score 2193; DB 2; Length 445; | | | | | |
| Best Local Similarity 99.8%; Pred. No. 7.9e-149; | | | | | |
| Matches 422; Conservative 1; Mismatches 0; Indels 0; Gaps 0; | | | | | |
| Qy | 1 | AAPPGRLRLRLLLLSAAALIP | TGQNLFTKDVTVIEGEVATIS | COVNVKSDSVIQLLN | 60 |
| | | | | | |

| | | | | | |
|---|---|-------------------------------|----------------------------------|------------------|-----|
| Db | 22 | AAPPGRLRLRLLLLSAAALIP | TGQNLFTKDVTVIEGEVATIS | COVNVKSDSVIQLLN | 81 |
| Qy | 61 | PNRQTIYFDERPLKDSRFQLNFSSELK | VSILTNVSIISDEGRYFCOLYTD | PPQESVTTI | 120 |
| Db | 82 | PNRQTIYFDERPLKDSRFQLNFSSELK | VSILTNVSIISDEGRYFCOLYTD | PPQESVTTI | 141 |
| Qy | 121 | TVLVPPRLMIDIQKDTAVEGEIEVNC | TAMASKPATTIRWF | KGKELKGKSEVEWSDM | 180 |
| Db | 142 | TVLVPPRLMIDIQKDTAVEGEIEVNC | TAMASKPATTIRWF | KGKELKGKSEVEWSDM | 201 |
| Qy | 181 | YTVTSQMLKVKHEDDGVPIQVEHPAVTGN | LTQRYLEVQYKPVQVHIQMTYPLQGLTR | 240 | |
| Db | 202 | YTVTSQMLKVKHEDDGVPIQVEHPAVTGN | LTQRYLEVQYKPVQVHIQMTYPLQGLTR | 261 | |
| Qy | 241 | EGDAFELTCEAIGKPKQPVMTVVRVDD | EMPOHVLSPGNLFINNKNKTNGTYRCEASNI | 300 | |
| Db | 262 | EGDAFELTCEAIGKPKQPVMTVVRVDD | EMPOHVLSPGNLFINNKNKTNGTYRCEASNI | 321 | |
| Qy | 301 | VGAHSDYMLYVYDPTTIPPTTTTTTTTT | TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT | 360 | |
| Db | 322 | VGAHSDYMLYVYDPTTIPPTTTTTTTTT | TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT | 381 | |
| Qy | 361 | GVVAVVVFAMLCIIILGRYFARHKGT | YFTHAEKAGDAADADATAIINAE | GGQNNSEKK | 420 |
| Db | 382 | GVVAVVVFAMLCIIILGRYFARHKGT | YFTHAEKAGDAADADATAIINAE | GGQNNSEKK | 441 |
| Qy | 421 | EYF | 423 | | |
| Db | 442 | EYF | 444 | | |
| RESULT 3 | | | | | |
| ID | Q8R5M8 | PRELIMINARY; | PRT; | 456 AA. | |
| AC | Q8R5M8; | | | | |
| DT | 01-JUN-2002 (T-EMBLrel. 21, Created) | | | | |
| DT | 01-JUN-2002 (T-EMBLrel. 21, Last sequence update) | | | | |
| DT | 01-OCT-2003 (T-EMBLrel. 25, Last annotation update) | | | | |
| DE | RA175. | | | | |
| GN | Name=Igsf4a; Synonyms=RA175; | | | | |
| OS | Mus musculus (Mouse). | | | | |
| OC | Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; | | | | |
| OC | Mammalia; Euthera; Rodentia; Sciurognathi; Muridae; Murinae; Mus. | | | | |
| OX | NCBI_TaxID=10090; | | | | |
| RN | [1] | | | | |
| RP | SEQUENCE FROM N.A. | | | | |
| RX | MEDLINE=22683149; PubMed=12799182; DOI=10.1016/S0014-4827(03)00095-8; | | | | |
| RA | Fujita E., Soyama A., Momoi T.; | | | | |
| RT | "RA175, which is the mouse ortholog of TSLC1, a tumor suppressor gene | | | | |
| RT | in human lung cancer, is a cell adhesion molecule."; | | | | |
| RL | Exp. Cell Res. 287:57-66(2003). | | | | |
| DR | EMBL; AB064265; BAB83501.2; -. | | | | |
| DR | MGI; MGI:1889272; Igsf4a. | | | | |
| DR | GO; GO:0016021; C:integral to membrane; TAS. | | | | |
| DR | GO; GO:0045202; C:synapse; IDA. | | | | |
| DR | GO; GO:0008021; C:synaptic vesicle; IDA. | | | | |
| DR | GO; GO:0005515; F:protein binding; IPI. | | | | |
| DR | GO; GO:0016338; P:calcium-independent cell-cell adhesion; IDA. | | | | |
| DR | GO; GO:0007155; P:cell adhesion; IDA. | | | | |
| DR | InterPro; IPR007110; Ig-like. | | | | |
| DR | InterPro; IPR003598; Ig C2. | | | | |
| DR | InterPro; IPR003585; Neurexin-like. | | | | |
| DR | PFam; PF00047; ig; 2. | | | | |
| DR | SMART; SM00294; 4.1m; 1. | | | | |
| DR | SMART; SM00408; IGC2; 1. | | | | |
| DR | PROSITE; PS50835; IG-LIKE; 3. | | | | |
| SQ | SEQUENCE 456 AA; 49787 MW; 3226E866A4BC1C7F CRC64; | | | | |
| Query Match 99.1%; Score 2176.5; DB 2; Length 456; | | | | | |
| Best Local Similarity 97.2%; Pred. No. 1.2e-147; | | | | | |
| Matches 422; Conservative 1; Mismatches 0; Indels 11; Gaps 1; | | | | | |

```

QY 1 AAPPGLRLRLLLLSAAALPTGQNLFTKDVTVIEGEVATISCVNKSDDSVIQLLN 60
Db 22 AAPGLRLRLLLLSAAALPTGQNLFTKDVTVIEGEVATISCVNKSDDSVIQLLN 81
QY 61 PNRTIYFRDPRPLKDSRFQLLNFSSELKVSLSNVSISDEGRYFCOLYTDPPQESYTTI 120
Db 82 PNRTIYFRDPRPLKDSRFQLLNFSSELKVSLSNVSISDEGRYFCOLYTDPPQESYTTI 141
QY 121 TVLVPPNLMIDIQDQTAVEGEEIEVNCTAMASKPATITIRFWKGNKELKGKSEVEEWSDM 180
Db 142 TVLVPPNLMIDIQDQTAVEGEEIEVNCTAMASKPATITIRFWKGNKELKGKSEVEEWSDM 201
QY 181 YTVTSQMLMKVHKEDDGVPIQVEHPAVTGNLTQRYLEVOYKQPQVHIQMTYPLQGLTR 240
Db 202 YTVTSQMLMKVHKEDDGVPIQVEHPAVTGNLTQRYLEVOYKQPQVHIQMTYPLQGLTR 261
QY 241 EGDFAELTCEAIGKQPQPMVMTWVRVDDMPQHAVLSGPNLFINNLTNDNGTYRCEASNI 300
Db 262 EGDFAELTCEAIGKQPQPMVMTWVRVDDMPQHAVLSGPNLFINNLTNDNGTYRCEASNI 321
QY 301 VGKASHDYMLYVDDPPTTIPPPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 349
Db 322 VGKASHDYMLYVDDPPTTIPPPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 381
QY 350 TIGAVDHAVIGGVAVVAVVVFAMLCLLIILGRYFARHKGTYFTHEAKGADDAADATAIINA 409
Db 382 TIGAVDHAVIGGVAVVAVVVFAMLCLLIILGRYFARHKGTYFTHEAKGADDAADATAIINA 441
QY 410 EGGQNNSEKKEYF 423
Db 442 EGGQNNSEKKEYF 455

```

RESULT 4

```

Q9BY67 ID Q9BY67 PRELIMINARY; PRT; 442 AA.
AC Q9BY67;
DT 01-JUN-2001 (TrEMBLrel. 17, Created)
DT 01-JUN-2001 (TrEMBLrel. 17, Last sequence update)
DE Nectin-like protein 2.
GN Name=NECL2;
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RA Zhou Y., Du G., Chen J., Yuan J., Qiang B.;
RL Submitted (MAR-1999) to the EMBL/GenBank/DBJ databases.
DR EMBL; AF132811; AAFe9029.1; -.
DR InterPro; IPR007110; IG-like.
DR InterPro; IPR003598; IG_c2.
DR InterPro; IPR003585; Neurexin-like.
DR Pfam; PF00047; ig; 2.
DR SMART; SM00294; 4.im; 1.
DR SMART; SM00408; IGC2; 1.
DR PROSITE; PS00835; IG_LIKE; 3.
SQ SEQUENCE 442 AA; 48537 MW; 68183E3238735062 CRC64;

```

```

Query Match 98.6%; Score 2166; DB 2; Length 442;
Best Local Similarity 98.6%; Pred. No. 6.7e-147;
Matches 417; Conservative 2; Mismatches 4; Indels 0; Gaps 0;

```

```

QY 1 AAPPGLRLRLLLLSAAALPTGQNLFTKDVTVIEGEVATISCVNKSDDSVIQLLN 60
Db 19 AAPGLRLRLLLLSAAALPTGQNLFTKDVTVIEGEVATISCVNKSDDSVIQLLN 78
QY 61 PNRTIYFRDPRPLKDSRFQLLNFSSELKVSLSNVSISDEGRYFCOLYTDPPQESYTTI 120
Db 79 PNRTIYFRDPRPLKDSRFQLLNFSSELKVSLSNVSISDEGRYFCOLYTDPPQESYTTI 138
QY 121 TVLVPPNLMIDIQDQTAVEGEEIEVNCTAMASKPATITIRFWKGNKELKGKSEVEEWSDM 180

```

```

Db 139 TVLVPPNLMIDIQDQTAVEGEEIEVNCTAMASKPATITIRFWKGNKELKGKSEVEEWSDM 198
QY 181 YTVTSQMLMKVHKEDDGVPIQVEHPAVTGNLTQRYLEVOYKQPQVHIQMTYPLQGLTR 240
Db 199 YTVTSQMLMKVHKEDDGVPIQVEHPAVTGNLTQRYLEVOYKQPQVHIQMTYPLQGLTR 258
QY 241 EGDFAELTCEAIGKQPQPMVMTWVRVDDMPQHAVLSGPNLFINNLTNDNGTYRCEASNI 300
Db 259 EGDFAELTCEAIGKQPQPMVMTWVRVDDMPQHAVLSGPNLFINNLTNDNGTYRCEASNI 318
QY 301 VGKASHDYMLYVDDPPTTIPPPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 360
Db 319 VGKASHDYMLYVDDPPTTIPPPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 378
QY 361 GVVAVVVFAMLCLLIILGRYFARHKGTYFTHEAKGADDAADATAIINAEGQNNSEKK 420
Db 379 GVVAVVVFAMLCLLIILGRYFARHKGTYFTHEAKGADDAADATAIINAEGQNNSEKK 438
QY 421 EYF 423
Db 439 EYF 441

```

RESULT 5

```

Q6AYP5 ID Q6AYP5 PRELIMINARY; PRT; 476 AA.
AC Q6AYP5;
DT 25-OCT-2004 (TrEMBLrel. 28, Created)
DT 25-OCT-2004 (TrEMBLrel. 28, Last sequence update)
DE Hypothetical protein.
OS Rattus norvegicus (Rat).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.
OX NCBI_TaxID=10116;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=Testis;
RX PubMed=12477932; DOI=10.1073/pnas.242603899;
RA Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
RA Klausner R.D., Colling F.S., Wagner L., Shenmen C.M., Schuler G.D.,
RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Haieh F.,
RA Dratchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
RA Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
RA Brownstein M.J., Udwin T.B., Toshiyuki S., Carninci P., Prange C.,
RA Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,
RA Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
RA Villalón D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
RA Fahey J., Helton E., Kettelman M., Madan A., Rodrigues S., Sanchez A.,
RA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
RA Blakeley R.W., Touchman J.W., Green E.D., Dickson M.C.,
RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M., Butterfield Y.S.,
RA Krzywinski M.I., Skalska U., Smallus D.E., Schnerch A., Schein J.E.,
RA Jones S.J., Marra M.A.;
RT "Generation and initial analysis of more than 15,000 full-length human
RT and mouse cDNA sequences."
RL Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903 (2002).
RN [2]
RP SEQUENCE FROM N.A.
RC TISSUE=Testis;
RA Director MGC Project;
RL Submitted (AUG-2004) to the EMBL/GenBank/DBJ databases.
DR EMBL; BC078966; AAH78966.1; -.
DR InterPro; IPR003599; ig.
DR InterPro; IPR007110; IG-like.
DR Pfam; PF00047; ig; 3.
DR SMART; SM00408; IGC2; 3.
DR PROSITE; PS00835; IG_LIKE; 3.

```

```
KW Hypothetical protein.
SQ SEQUENCE 476 AA; 51853 MW; 486A43D37082C8FE CRC64;

Query Match 97.3%; Score 2138.5; DB 2; Length 476;
Best Local Similarity 92.3%; Pred. No. 6.9e-145;
Matches 419; Conservative 0; Mismatches 44; Indels 31; Gaps 2;

QY 1 AAPPGLRLRLLLLLLAAAALIPGQGNLFKDVTVIEGEVATISQVKNKSDSDSVIQLLN 60
DB 22 AAPPGLRLRLLLLLLAAAALIPGQGNLFKDVTVIEGEVATISQVKNKSDSDSVIQLLN 81
QY 61 PNRQTIYFRDRLKDSRFOLLNFSSSELKVSILTNVSIISDEGRYFCQLYTDPPOESYTTI 120
DB 82 PNRQTIYFRDRLKDSRFOLLNFSSSELKVSILTNVSIISDEGRYFCQLYTDPPOESYTTI 141
QY 121 TVLVPPRNLMIDIKQTAVEGEIEVNCETAMASKPATIRWPKGNKELKGSSEVSEWSDM 180
DB 142 TVLVPPRNLMIDIKQTAVEGEIEVNCETAMASKPATIRWPKGNKELKGSSEVSEWSDM 201
QY 181 YTVTSQMLKVKHEDDGVPIQVQEHFPAVTGNLQRYLEYQVKPQVHIQMTYPLQGLTR 240
DB 202 YTVTSQMLKVKHEDDGVPIQVQEHFPAVTGNLQRYLEYQVKPQVHIQMTYPLQGLTR 261
QY 241 EGDAPFELTCEATGKGPQVMTWVRVDDENPQHAVLSPGNLFINLNKTDNGTYRCEASNI 300
DB 262 EGDAPFELTCEATGKGPQVMTWVRVDDENPQHAVLSPGNLFINLNKTDNGTYRCEASNI 321
QY 301 VGKAHSDYMLVYVDPPTTIPPP-----TTTTTTTTTTTTTTTTTTTT----- 341
DB 322 VGKAHSDYMLVYVDPPTTIPPP-----TTTTTTTTTTTTTTTTTTTT----- 361
QY 342 -----DSRAGEEGTIGAVDHAVIGGVVAVVVFAMLCIIILGRYPARHKGTGF 389
DB 382 NSAEELSDSELDSSRAGEEGTIGAVDHAVIGGVVAVVVFAMLCIIILGRYPARHKGTGF 441
QY 390 THEAKGADDAADATTAIINAEQGNNSSEKKEYF 423
DB 442 THEAKGADDAADATTAIINAEQGNNSSEKKEYF 475

RESULT 6
Q6F3J3 PRELIMINARY; PRT; 428 AA.
ID Q6F3J3 AC Q6F3J3
DT 25-OCT-2004 (TrEMBLrel. 28, Created)
DT 25-OCT-2004 (TrEMBLrel. 28, Last sequence update)
DE Nectin-like molecule 2 (RA175 isoform b).
GN Name=RA175;
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RA Fujita E., Aikawa K., Momoi T.;
RL Submitted (JUL-2004) to the EMBL/GenBank/DBJ databases.
DR EMBL; AB183400; BAD30019.1; -.
DR GO; GO:0016021; C:integral to membrane; TAS.
DR GO; GO:0045202; C:synapse; IDA.
DR GO; GO:0008021; C:synaptic vesicle; IDA.
DR GO; GO:0005515; F:protein binding; IPI.
DR GO; GO:0016338; P:calcium-independent cell-cell adhesion; IDA.
DR GO; GO:0007155; P:cell adhesion; IDA.
DR InterPro; IPR003599; Ig.
DR InterPro; IPR007110; Ig-like.
DR InterPro; IPR003598; Ig_c2.
DR Pfam; PF00047; Ig_3.
DR SMART; SM00409; IG2; 3.
DR SMART; SM00408; IGC2; 3.
DR PROSITE; PS50835; IG_LIKE; 3.
SQ SEQUENCE 428 AA; 46903 MW; B10DFF1A2B893573 CRC64;
```

```
Query Match 93.2%; Score 2048.5; DB 2; Length 428;
Best Local Similarity 94.3%; Pred. No. 1.7e-138;
Matches 399; Conservative 1; Mismatches 6; Indels 17; Gaps 1;

QY 1 AAPPGLRLRLLLLLLAAAALIPGQGNLFKDVTVIEGEVATISQVKNKSDSDSVIQLLN 60
DB 22 AAPPGLRLRLLLLLLAAAALIPGQGNLFKDVTVIEGEVATISQVKNKSDSDSVIQLLN 81
QY 61 PNRQTIYFRDRLKDSRFOLLNFSSSELKVSILTNVSIISDEGRYFCQLYTDPPOESYTTI 120
DB 82 PNRQTIYFRDRLKDSRFOLLNFSSSELKVSILTNVSIISDEGRYFCQLYTDPPOESYTTI 141
QY 121 TVLVPPRNLMIDIKQTAVEGEIEVNCETAMASKPATIRWPKGNKELKGSSEVSEWSDM 180
DB 142 TVLVPPRNLMIDIKQTAVEGEIEVNCETAMASKPATIRWPKGNKELKGSSEVSEWSDM 201
QY 181 YTVTSQMLKVKHEDDGVPIQVQEHFPAVTGNLQRYLEYQVKPQVHIQMTYPLQGLTR 240
DB 202 YTVTSQMLKVKHEDDGVPIQVQEHFPAVTGNLQRYLEYQVKPQVHIQMTYPLQGLTR 261
QY 241 EGDAPFELTCEATGKGPQVMTWVRVDDENPQHAVLSPGNLFINLNKTDNGTYRCEASNI 300
DB 262 EGDAPFELTCEATGKGPQVMTWVRVDDENPQHAVLSPGNLFINLNKTDNGTYRCEASNI 321
QY 301 VGKAHSDYMLVYVDPPTTIPPP-----TTTTTTTTTTTTTTTTTTTT----- 360
DB 322 VGKAHSDYMLVYVDPPTTIPPP-----TTTTTTTTTTTTTTTTTTTT----- 364
QY 361 GVVAVVVFAMLCIIILGRYPARHKGTGFTHAKGADDAADATTAIINAEQGNNSSEK 420
DB 365 GVVAVVVFAMLCIIILGRYPARHKGTGFTHAKGADDAADATTAIINAEQGNNSSEK 424
QY 421 EYF 423
DB 425 EYF 427

RESULT 7
Q7TNLI PRELIMINARY; PRT; 417 AA.
ID Q7TNLI AC Q7TNLI
DT 01-OCT-2003 (TrEMBLrel. 25, Created)
DT 01-OCT-2003 (TrEMBLrel. 25, Last sequence update)
DT 25-OCT-2004 (TrEMBLrel. 28, Last annotation update)
DE Nectin-like molecule 2 (RA175 isoform d).
GN Name=RA175;
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RA STRAIN=C57BL/6; TISSUE=Brain;
RX MEDLINE=22841094; PubMed=12826663; DOI=10.1074/jbc.M305387200;
RA Shingai T., Ikeda W., Kakunaga S., Morimoto K., Takekuni K., Itoh S.,
RA Satoh K., Takeuchi M., Imai T., Monden M., Takai Y.;
RT Implications of nectin-like molecule-
2/IGSF4/RA175/SgIGSF/TSUCI/SyncAM1 in cell-cell adhesion and
transmembrane protein localization in epithelial cells.";
RL J. Biol. Chem. 278:35421-35427(2003).
RN [2]
RP SEQUENCE FROM N.A.
RA Fujita E., Aikawa K., Momoi T.;
RL Submitted (JUL-2004) to the EMBL/GenBank/DBJ databases.
DR EMBL; AY351388; AAQ02381.1; -.
DR EMBL; AB183401; BAD30020.1; -.
DR GO; GO:0016021; C:integral to membrane; TAS.
DR GO; GO:0045202; C:synapse; IDA.
DR GO; GO:0008021; C:synaptic vesicle; IDA.
DR GO; GO:0005515; F:protein binding; IPI.
DR GO; GO:0016338; P:calcium-independent cell-cell adhesion; IDA.
DR GO; GO:0007155; P:cell adhesion; IDA.
```

GO: 0007416; P:synaptogenesis; IDA.
 DR InterPro; IPR007110; Ig-like.
 DR InterPro; IPR003598; Ig c2.
 DR InterPro; IPR003585; Neurxin-like.
 DR Pfam; PF00047; ig; 2.
 DR SMART; SM00294; 4.1m; 1.
 DR SMART; SM00408; Igc2; 1.
 DR PROSITE; PS0835; IG_LIKE; 3.
 SQ SEQUENCE 417 AA; 45779 MW; 98500180D37845C2 CRC64;

Query Match 92.3%; Score 2027; DB 2; Length 417;
 Best Local Similarity 93.4%; Pred. No. 5.7e-137;
 Matches 399; Conservative 0; Mismatches 0; Indels 28; Gaps 1;

Qy 1 AAPPGLRLRLLLLLSAAALIPGQGNLFTKDVTVIEGEVATISQVKNKSDSDSVIQLLN 60
 Db 22 AAPPGLRLRLLLLLSAAALIPGQGNLFTKDVTVIEGEVATISQVKNKSDSDSVIQLLN 81
 Qy 61 PNQTIYFRDPRPLKDSRFQQLNFFSSSELKVSITNVSISDEGRYFCQLYTDPQESYTTI 120
 Db 82 PNQTIYFRDPRPLKDSRFQQLNFFSSSELKVSITNVSISDEGRYFCQLYTDPQESYTTI 141
 Qy 121 TVLVPRLNLMIDIOKDTAVEGEEIVNCTAMASKPATIRWPKGNKELKGKSEVEESDM 180
 Db 142 TVLVPRLNLMIDIOKDTAVEGEEIVNCTAMASKPATIRWPKGNKELKGKSEVEESDM 201
 Qy 181 YTVTSQMLKVKHEDGVPVICOVEHPAVTGNLQRYLEVQYKQVHIQMTYPLQGLTR 240
 Db 202 YTVTSQMLKVKHEDGVPVICOVEHPAVTGNLQRYLEVQYKQVHIQMTYPLQGLTR 261
 Qy 241 EGDAPFELTCEAIGKQPQVMVTVRVDDEMPQHAVLSGPNLFINNLTNDNGTYRCEASNI 300
 Db 262 EGDAPFELTCEAIGKQPQVMVTVRVDDEMPQHAVLSGPNLFINNLTNDNGTYRCEASNI 321
 Qy 301 VGKASDYMLYVDPPTTTPPTTT 360
 Db 322 VGKASDYMLYVY-----DSRAGEEGTIGAVDHAIVG 353
 Qy 361 GVAVVVFAMLCILILGRYFARHKGTFTHEAKGADDAADATTAIINAEQQNNSEKK 420
 Db 354 GVAVVVFAMLCILILGRYFARHKGTFTHEAKGADDAADATTAIINAEQQNNSEKK 413

Qy 421 EYF 423
 Db 414 EYF 416

RESULT 8
 Q8N2F4
 ID Q8N2F4 PRELIMINARY; PRT; 443 AA.
 AC Q8N2F4;
 DT 01-OCT-2002 (TrEMBLrel. 22, Created)
 DT 01-OCT-2002 (TrEMBLrel. 22, Last sequence update)
 DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
 DE Hypothetical protein FSEC0200.
 OS Homo sapiens (Human).
 OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 OX NCBI_TaxID=9606;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC TISSUE=Whole embryo;
 RA Oca T.; Nishikawa T.; Suzuki Y.; Kawai-Hio Y.; Hayashi K.; Ishii S.;
 RA Saito K.; Yamamoto J.; Wakamatsu A.; Nagai T.; Nakamura Y.;
 RA Negahari K.; Sugano S.; Isegai T.;
 RL Submitted (MAG-2002) to the EMBL/GenBank/DBJ databases.
 DR EMBL; AK075502; BAC11657.1; -;
 DR Genbank; HGNC:5951; IGSP4.
 DR InterPro; IPR007110; Ig-like.
 DR InterPro; IPR003598; Ig_c2.
 DR InterPro; IPR003585; Neurxin-like.
 DR Pfam; PF00047; ig; 2.
 DR SMART; SM00294; 4.1m; 1.

GO: 0007416; P:synaptogenesis; IDA.
 DR InterPro; IPR007110; Ig-like.
 DR InterPro; IPR003598; Ig c2.
 DR InterPro; IPR003585; Neurxin-like.
 DR Pfam; PF00047; ig; 2.
 DR SMART; SM00294; 4.1m; 1.
 DR SMART; SM00408; Igc2; 1.
 DR PROSITE; PS0835; IG_LIKE; 3.
 SQ SEQUENCE 417 AA; 45779 MW; 98500180D37845C2 CRC64;

Query Match 92.0%; Score 2020.5; DB 2; Length 443;
 Best Local Similarity 92.9%; Pred. No. 1.8e-136;
 Matches 394; Conservative 5; Mismatches 24; Indels 1; Gaps 1;

Qy 1 AAPPGLRLRLLLLLSAAALIPGQGNLFTKDVTVIEGEVATISQVKNKSDSDSVIQLLN 60
 Db 19 AAPPGLRLRLLLLLSAAALIPGQGNLFTKDVTVIEGEVATISQVKNKSDSDSVIQLLN 78
 Qy 61 PNQTIYFRDPRPLKDSRFQQLNFFSSSELKVSITNVSISDEGRYFCQLYTDPQESYTTI 120
 Db 79 PNQTIYFRDPRPLKDSRFQQLNFFSSSELKVSITNVSISDEGRYFCQLYTDPQESYTTI 138
 Qy 121 TVLVPRLNLMIDIOKDTAVEGEEIVNCTAMASKPATIRWPKGNKELKGKSEVEESDM 180
 Db 139 TVLVPRLNLMIDIOKDTAVEGEEIVNCTAMASKPATIRWPKGNKELKGKSEVEESDM 199
 Qy 181 YTVTSQMLKVKHEDGVPVICOVEHPAVTGNLQRYLEVQYKQVHIQMTYPLQGLTR 240
 Db 199 YTVTSQMLKVKHEDGVPVICOVEHPAVTGNLQRYLEVQYKQVHIQMTYPLQGLTR 258
 Qy 241 EGDAPFELTCEAIGKQPQVMVTVRVDDEMPQHAVLSGPNLFINNLTNDNGTYRCEASNI 300
 Db 259 EGDAPFELTCEAIGKQPQVMVTVRVDDEMPQHAVLSGPNLFINNLTNDNGTYRCEASNI 318
 Qy 301 VGKASDYMLYVDPPTTTPPTTT 359
 Db 319 VGKASDYMLYVYTTATTEPAVHGLTQLPNSAEELSDLSRAGEEGSIRAVDHAIV 378
 Qy 360 GVAVVVFAMLCILILGRYFARHKGTFTHEAKGADDAADATTAIINAEQQNNSEKK 419
 Db 379 GVAVVVFAMLCILILGRYFARHKGTFTHEAKGADDAADATTAIINAEQQNNSEKK 438

Qy 420 KEYF 423
 Db 439 KEYF 442

RESULT 9
 Q80VG4
 ID Q80VG4 PRELIMINARY; PRT; 336 AA.
 AC Q80VG4;
 DT 01-JUN-2003 (TrEMBLrel. 24, Created)
 DT 01-JUN-2003 (TrEMBLrel. 24, Last sequence update)
 DT 25-OCT-2004 (TrEMBLrel. 28, Last annotation update)
 DE A secretion form of SgIGSF/TSCL1 (RA175 isoform e).
 GN Name=IgSF4a; Synonyms=RA175, sSgIGSF/STSLC1;
 OS Mus musculus (Mouse).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Mus.
 OX NCBI_TaxID=10090;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC STRAIN=C57BL/6; TISSUE=Spleen cell-derived;
 RA Ito A.; Kona Y.; Nagano T.;
 RL Submitted (SEP-2002) to the EMBL/GenBank/DBJ databases.
 RN [2]
 RP SEQUENCE FROM N.A.
 RA Fujita E.; Aikawa K.; Momoi T.;
 RL Submitted (JUL-2004) to the EMBL/GenBank/DBJ databases.
 DR EMBL; AB092414; BAC66173.1; -;
 DR EMBL; AB183402; BAD30021.1; -;
 DR MGD; MGI:1889272; IgSF4a.
 DR GO; GO:0016021; C:integral to membrane; TAS.
 DR GO; GO:0045202; C:synapse; IDA.
 DR GO; GO:008021; C:synaptic vesicle; IDA.
 DR GO; GO:0005515; P:protein binding; IPI.
 DR GO; GO:0016338; P:calcium-independent cell-cell adhesion; IDA.
 DR GO; GO:0007155; P:cell adhesion; IDA.
 DR GO; GO:0007416; P:synaptogenesis; IDA.

```

DR InterPro; IPR007110; Ig-like.
DR InterPro; IPR003598; Ig_c2.
DR Pfam; PF00047; Ig; 2.
DR SMART; SM00408; Igc2; 1.
DR PROSITE; PS50835; IG_LIKE; 3.
SQ SEQUENCE 336 AA; 37155 MW; 9EF3D08B8BE5E8F72 CRC64;

Query Match 74.2%; Score 1631; DB 2; Length 336;
Best Local Similarity 100.0%; Pred. No. 1e-108;
Matches 313; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AAPGRLRLRLLLLLLSAAALIPGDCGNLFTKDVTVIEGEVATISQVKNKSDSDSVIQLLN 60
Db 22 AAPGRLRLRLLLLLLSAAALIPGDCGNLFTKDVTVIEGEVATISQVKNKSDSDSVIQLLN 81
QY 61 PNRQTIYFRDRLPKDSRFQLLNFSSSELKSVLTNVSISDEGRYFCOLYTDPPQESYTTI 120
Db 82 PNRQTIYFRDRLPKDSRFQLLNFSSSELKSVLTNVSISDEGRYFCOLYTDPPQESYTTI 141
QY 121 TVLVPPRNLMIDIQKDTAVEGEIEVNCCTAMASKPATTTIRWFKGNKELKGKSEVEEWSDM 180
Db 142 TVLVPPRNLMIDIQKDTAVEGEIEVNCCTAMASKPATTTIRWFKGNKELKGKSEVEEWSDM 201
QY 181 YTVTSQMLKVKHKEDDGVPIQVEHPAVTGNLQTORYLEVQYKQPQVHIQMTYPLQGLTR 240
Db 202 YTVTSQMLKVKHKEDDGVPIQVEHPAVTGNLQTORYLEVQYKQPQVHIQMTYPLQGLTR 261

RESULT 10
Q9D6E7 PRELIMINARY; PRT; 336 AA.
AC Q9D6E7;
DT 01-JUN-2001 (TrEMBLrel. 17, Created)
DT 01-JUN-2001 (TrEMBLrel. 17, Last sequence update)
DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
DE Mus musculus adult male hippocampus cDNA, RIKEN full-length enriched
DE library, clone:2900073G06 product:immunoglobulin superfamily, member
DE 4. full insert sequence.
GN Names:Igsf4a; (Mouse).
OS Mus musculus
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=C57BL/6J; TISSUE=Hippocampus;
RX MEDLINE=9279253; PubMed=10349636; DOI=10.1016/S0076-6879(99)03004-9;
RA Carninci P., Hayashizaki Y.;
RT "High-efficiency full-length cDNA cloning.";
RL Meth. Enzymol. 303:19-44(1999).
RN [2]
RP SEQUENCE FROM N.A.
RC STRAIN=C57BL/6J; TISSUE=Hippocampus;
RX MEDLINE=21085660; PubMed=11217851; DOI=10.1038/35055500;
RA RIKEN FANTOM Consortium;
RT "Functional annotation of a full-length mouse cDNA collection.";
RL Nature 409:685-690(2001).
RN [3]
RP SEQUENCE FROM N.A.
RC STRAIN=C57BL/6J; TISSUE=Hippocampus;
RA The RIKEN Consortium.
RA The RIKEN Genome Exploration Research Group Phase I & II Team;
RT "Analysis of the mouse transcriptome based on functional annotation of
RT 60,770 full-length cDNAs.";
RL Nature 420:563-573(2002).

[4]
RN RP SEQUENCE FROM N.A.
RC STRAIN=C57BL/6J; TISSUE=Hippocampus;
RX MEDLINE=20499374; PubMed=11042159; DOI=10.1101/gr.145100;
RA Carninci P., Shibata Y., Hayatsu N., Sugahara Y., Shibata K., Itoh M.,
RA Konno H., Okazaki Y., Muramatsu M., Hayashizaki Y.;
RT "Normalization and subtraction of cap-trapper-selected cDNAs to
RT prepare full-length cDNA libraries for rapid discovery of new genes.";
RL Genome Res. 10:1617-1630(2000).
RN [5]
RP SEQUENCE FROM N.A.
RC STRAIN=C57BL/6J; TISSUE=Hippocampus;
RX MEDLINE=2030913; PubMed=11076861; DOI=10.1101/gr.152600;
RA Shibata K., Itoh M., Aizawa K., Nagaoka S., Sasaki N., Carninci P.,
RA Konno H., Akiyama J., Nishi K., Kitsuunai T., Tashiro H., Itoh M.,
RA Sumi N., Ishii Y., Nakamura S., Hazama M., Nishine T., Harada A.,
RA Yamamoto R., Matsumoto H., Sakaguchi S., Ikegami T., Kashiwagi K.,
RA Fujiwaka S., Inoue K., Togawa Y., Izawa K., Tanaka T., Matsura S., Kawai J.,
RA Yoneda Y., Ishikawa T., Ozawa K., Tanaka T., Matsura S., Kawai J.,
RA Okazaki Y., Muramatsu M., Inoue Y., Kira A., Hayashizaki Y.;
RT "RIKEN integrated sequence analysis (RISA) system-384-format
RT sequencing pipeline with 384 multicapillary sequencer.";
RL Genome Res. 10:1757-1771(2000).
RN [6]
RP SEQUENCE FROM N.A.
RC STRAIN=C57BL/6J; TISSUE=Hippocampus;
RX STRAIN=C57BL/6J; TISSUE=Hippocampus;
RA Adachi J., Aizawa K., Akahita S., Akimura T., Arai A., Aono H.,
RA Arakawa T., Bono H., Carninci P., Fukuda S., Fukunishi Y., Furuno M.,
RA Hanaoka T., Hara A., Hayatsu N., Hiramoto K., Hiraoka T., Hori F.,
RA Imotani K., Ishii Y., Itoh M., Izawa M., Kasukawa T., Kato H.,
RA Kawai J., Kojima Y., Konno H., Kouda M., Koya S., Kurihara C.,
RA Matsuyama T., Miyazaki A., Nishi K., Nomura K., Numazaki R., Ohno M.,
RA Okazaki Y., Okido T., Owa C., Saito H., Saito R., Sakai C., Sakai K.,
RA Sano H., Sasaki D., Shibata K., Shibata Y., Shinagawa A., Shiraki T.,
RA Sogabe Y., Suzuki H., Tagami M., Tagawa A., Takahashi F., Tanaka T.,
RA Tejima Y., Toya T., Yamamura T., Yasunishi A., Yoshida K., Yoshino M.,
RA Muramatsu M., Hayashizaki Y.;
RL Submitted (JUL-2000) to the EMBL/GenBank/DBJ databases.
DR EMBL; AK013775; BAB28988.1; -.
DR MGD; MGI:1889272; Igsf4a.
DR GO; GO:0016021; C:integral to membrane; TAS.
DR GO; GO:0045202; C:synapse; IDA.
DR GO; GO:0008021; C:synaptic vesicle; IDA.
DR GO; GO:0005515; F:protein binding; IPI.
DR GO; GO:0016338; P:calcium-independent cell-cell adhesion; IDA.
DR GO; GO:0007155; P:cell adhesion; IDA.
DR GO; GO:0007416; P:synaptogenesis; IDA.
DR InterPro; IPR007110; Ig-like.
DR InterPro; IPR003598; Ig_c2.
DR Pfam; PF00047; Ig; 2.
DR SMART; SM00408; Igc2; 1.
DR PROSITE; PS50835; IG_LIKE; 3.
SQ SEQUENCE 336 AA; 37157 MW; FF887FAF4EFD120 CRC64;

Query Match 74.2%; Score 1631; DB 2; Length 336;
Best Local Similarity 100.0%; Pred. No. 1e-108;
Matches 313; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AAPGRLRLRLLLLLLSAAALIPGDCGNLFTKDVTVIEGEVATISQVKNKSDSDSVIQLLN 60
Db 22 AAPGRLRLRLLLLLLSAAALIPGDCGNLFTKDVTVIEGEVATISQVKNKSDSDSVIQLLN 81
QY 61 PNRQTIYFRDRLPKDSRFQLLNFSSSELKSVLTNVSISDEGRYFCOLYTDPPQESYTTI 120
Db 82 PNRQTIYFRDRLPKDSRFQLLNFSSSELKSVLTNVSISDEGRYFCOLYTDPPQESYTTI 141
QY 121 TVLVPPRNLMIDIQKDTAVEGEIEVNCCTAMASKPATTTIRWFKGNKELKGKSEVEEWSDM 180
Db 142 TVLVPPRNLMIDIQKDTAVEGEIEVNCCTAMASKPATTTIRWFKGNKELKGKSEVEEWSDM 201
QY 181 YTVTSQMLKVKHKEDDGVPIQVEHPAVTGNLQTORYLEVQYKQPQVHIQMTYPLQGLTR 240
Db 202 YTVTSQMLKVKHKEDDGVPIQVEHPAVTGNLQTORYLEVQYKQPQVHIQMTYPLQGLTR 261

```

```
QY 241 EGDALFELTCEAIGKQPQPMVTVVRVDDMPQHAVLSGPNLFINNLTNDGTGYRCEASNI 300
DB 262 EGDALFELTCEAIGKQPQPMVTVVRVDDMPQHAVLSGPNLFINNLTNDGTGYRCEASNI 321
QY 301 VGKAHSDYMLYVY 313
DB 322 VGKAHSDYMLYVY 334

RESULT 11
Q86WB8
ID Q86WB8 PRELIMINARY; PRT; 333 AA.
AC Q86WB8
DT 01-JUN-2003 (TrEMBLrel. 24, Created)
DT 01-JUN-2003 (TrEMBLrel. 24, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE Secretory isoform of TSLC-1.
GN Name=TSLC-1;
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominiidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=Lung;
RA Ito A., Koma Y., Nagano T.;
RL Submitted (OCT-2002) to the EMBL/GenBank/DBJ databases.
DR EMBL; AB094146; BAC66178.1; -.
DR InterPro; IPR007110; Ig-like.
DR InterPro; IPR003598; Ig_c2.
DR Pfam; PF00047; Ig; 2.
DR SMART; SM00408; IGC2; 1.
DR PROSITE; PS00835; IG_LIKE; 3.
SQ SEQUENCE 333 AA; 36915 MW; D7C1102F46D08492 CRC64;

Query Match 73.58; Score 1615; DB 2; Length 333;
Best Local Similarity 99.0%; Pred. No. 1.4e-107;
Matches 310; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 AAPPGRLRLRLLLLSAAALIPGDDGNLFKDVTVIEGEVATISCVNKSDDSVIQLLN 60
DB 19 AAPPGRLRLRLLLLSAAALIPGDDGNLFKDVTVIEGEVATISCVNKSDDSVIQLLN 78
QY 61 PNRQTYFRDRLPKDSRFOLLNFSSELKVSILTNVSIISDEGRYFCQLYTDPQESYTTI 120
DB 79 PNRQTYFRDRLPKDSRFOLLNFSSELKVSILTNVSIISDEGRYFCQLYTDPQESYTTI 138
QY 121 TVLVPPRLNLMIDIKQDTAVEGEIEVNCNTAMASKPATTIRWFKGNKELKGKSEVEWSDM 180
DB 139 TVLVPPRLNLMIDIKQDTAVEGEIEVNCNTAMASKPATTIRWFKGNTELKGKSEVEWSDM 198
QY 181 YTVTSQMLKVKHEDDGPVVICQVEHPAVTGNLQRYLEVQYKPVQVHIQMTYPLQGLTR 240
DB 199 YTVTSQMLKVKHEDDGPVVICQVEHPAVTGNLQRYLEVQYKPVQVHIQMTYPLQGLTR 258
QY 241 EGDALFELTCEAIGKQPQPMVTVVRVDDMPQHAVLSGPNLFINNLTNDGTGYRCEASNI 300
DB 259 EGDALFELTCEAIGKQPQPMVTVVRVDDMPQHAVLSGPNLFINNLTNDGTGYRCEASNI 318
QY 301 VGKAHSDYMLYVY 313
DB 319 VGKAHSDYMLYVY 331

RESULT 12
Q92ZHB
ID Q92ZHB PRELIMINARY; PRT; 295 AA.
AC Q92ZHB;
DT 01-MAY-1999 (TrEMBLrel. 10, Created)
DT 01-MAY-1999 (TrEMBLrel. 10, Last sequence update)
DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
DE Nectin-like protein 2.

GN Name=Igsf4a; Synonyms=Nectin2;
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=Lung;
RA Zhou Y., Du G., Chen J., Yuan J., Qiang B.;
RL Submitted (APR-1998) to the EMBL/GenBank/DBJ databases.
DR EMBL; AF061260; AAC67243.1; -.
DR MGD; MGI:1889272; Igsf4a.
DR GO; GO:0016021; C:integral to membrane; TAS.
DR GO; GO:0045202; C:synapse; IDA.
DR GO; GO:0005515; F:protein binding; IPI.
DR GO; GO:0016338; P:calcium-independent cell-cell adhesion; IDA.
DR GO; GO:0007155; P:cell adhesion; IDA.
DR GO; GO:0007416; P:synaptogenesis; IDA.
DR InterPro; IPR007110; Ig-like.
DR InterPro; IPR003598; Ig_c2.
DR InterPro; IPR003585; Neurexin-like.
DR Pfam; PF00047; Ig; 2.
DR SMART; SM00294; 4.1m; 1.
DR SMART; SM00408; IGC2; 1.
DR PROSITE; PS00835; IG_LIKE; 2.
RP SEQUENCE 295 AA; 32509 MW; 9DE9D86F6FF6F488 CRC64;

Query Match 70.4%; Score 1546; DB 2; Length 295;
Best Local Similarity 100.0%; Pred. No. 1.1e-102;
Matches 294; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 130 MIDIQKDTAVEGEIEVNCNTAMASKPATTIRWFKGNKELKGKSEVEWSDMYTTSQML 189
DB 1 MIDIQKDTAVEGEIEVNCNTAMASKPATTIRWFKGNKELKGKSEVEWSDMYTTSQML 60
QY 190 KVHKEDDGPVVICQVEHPAVTGNLQRYLEVQYKPVQVHIQMTYPLQGLTREGDAFELTC 249
DB 61 KVHKEDDGPVVICQVEHPAVTGNLQRYLEVQYKPVQVHIQMTYPLQGLTREGDAFELTC 120
QY 250 EAIGKQPQPMVTVVRVDDMPQHAVLSGPNLFINNLTNDGTGYRCEASNVGKAHSDYM 309
DB 121 EAIGKQPQPMVTVVRVDDMPQHAVLSGPNLFINNLTNDGTGYRCEASNVGKAHSDYM 180
QY 310 LYVDPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTITDTSRAGEGEGTIGAVDHAVIGGVAVVFA 369
DB 181 LYVDPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTITDTSRAGEGEGTIGAVDHAVIGGVAVVFA 240
QY 370 MLCLLIILGRYFARHKGTYFTHKAGDADDAADATAIINAEKGQNNSEKKEYF 423
DB 241 MLCLLIILGRYFARHKGTYFTHKAGDADDAADATAIINAEKGQNNSEKKEYF 294

RESULT 13
Q9QYL4
ID Q9QYL4 PRELIMINARY; PRT; 306 AA.
AC Q9QYL4;
DT 01-MAY-2000 (TrEMBLrel. 13, Created)
DT 01-MAY-2000 (TrEMBLrel. 13, Last sequence update)
DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
DE Adhesion protein RA175C.
GN Name=Igsf4a; Synonyms=ral75c;
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=Lung;
RA Fujita E., Soyama A., Momoi T.;
RL "RA175, which is the mouse ortholog of TSLC1, a tumor suppressor gene in human lung cancer, is a cell adhesion molecule.";
RT Exp. Cell Res. 287:57-66(2003).
DR EMBL; AB021966; BAA87916.1; -.

```


| | | | |
|---|---|--------|---|
| DR | MGD; MGI:1899272; Igsf4a. | DR | GO; GO:0007155; P:cell adhesion; IDA. |
| DR | GO; GO:0016021; C:integral to membrane; TAS. | DR | GO; GO:0007416; P:synaptogenesis; IDA. |
| DR | GO; GO:0045202; C:synapse; IDA. | DR | InterPro; IPR007110; IG-like. |
| DR | GO; GO:0008021; C:synaptic vesicle; IDA. | DR | InterPro; IPR003598; IG_c2. |
| DR | GO; GO:0005515; P:protein binding; IPI. | DR | InterPro; IPR003585; Neuroxin-like. |
| DR | GO; GO:0016338; P:calcium-independent cell-cell adhesion; IDA. | DR | Pfam; PF00047; ig; 1. |
| DR | GO; GO:0007155; P:cell adhesion; IDA. | DR | SMART; SM00294; 4.1m; 1. |
| DR | GO; GO:0007416; P:cell adhesion; IDA. | DR | SMART; SM00408; IGC2; 1. |
| DR | InterPro; IPR007110; IG-like. | DR | PROSITE; PS50835; IG_LIKE; 2. |
| DR | InterPro; IPR003598; IG_c2. | SQ | SEQUENCE 295 AA; 32347 MW; FDD9E8145C6B971B CRC64; |
| DR | InterPro; IPR003585; Neuroxin-like. | | |
| DR | Pfam; PF00047; ig; 1. | | |
| DR | SMART; SM00294; 4.1m; 1. | | |
| DR | SMART; SM00408; IGC2; 1. | | |
| DR | PROSITE; PS50835; IG_LIKE; 2. | | |
| SQ | SEQUENCE 306 AA; 33522 MW; A4CE37B0F23554D5 CRC64; | | |
| Query Match 68.9%; Score 1513.5; DB 2; Length 306; | | | |
| Best Local Similarity 95.4%; Pred. No. 2.4e-100; | | | |
| Matches 291; Conservative 1; Mismatches 2; Indels 11; Gaps 1; | | | |
| QY | 130 MIDIQDQTAVEGEIEVNCCTAMASKPATIRWFKGNKELKGKSEVEEWSDMYTVTSQML 189 | QY | 130 MIDIQDQTAVEGEIEVNCCTAMASKPATIRWFKGNKELKGKSEVEEWSDMYTVTSQML 189 |
| Db | 1 MIDIQDQTAVEGEIEVNCCTAMASKPATIRWFKGNKELKGKSEVEEWSDMYTVTSQML 60 | Db | 1 MIDIQDQTAVEGEIEVNCCTAMASKPATIRWFKGNKELKGKSEVEEWSDMYTVTSQML 60 |
| QY | 190 KVHKEDDGPVVCQVEHPAVTGNLQRYLEYVQYKQVHIQMTYPLQGLTREGDAFELTC 249 | QY | 190 KVHKEDDGPVVCQVEHPAVTGNLQRYLEYVQYKQVHIQMTYPLQGLTREGDAFELTC 249 |
| Db | 61 KVHKEDDGPVVCQVEHPAVTGNLQRYLEYVQYKQVHIQMTYPLQGLTREGDALELIC 120 | Db | 61 KVHKEDDGPVVCQVEHPAVTGNLQRYLEYVQYKQVHIQMTYPLQGLTREGDALELIC 120 |
| QY | 250 EAIGKQPQVMVTVRVDDEMPQHAVLSGNLFINLNKTDNGTYRCEASNIVGKAHSDYM 309 | QY | 250 EAIGKQPQVMVTVRVDDEMPQHAVLSGNLFINLNKTDNGTYRCEASNIVGKAHSDYM 309 |
| Db | 121 EAIGKQPQVMVTVRVDDEMPQHAVLSGNLFINLNKTDNGTYRCEASNIVGKAHSDYI 180 | Db | 121 EAIGKQPQVMVTVRVDDEMPQHAVLSGNLFINLNKTDNGTYRCEASNIVGKAHSDYI 180 |
| QY | 310 LVYVDPTTIPPTTT 358 | QY | 310 LVYVDPTTIPPTTT 358 |
| Db | 181 LVYVDPTTIPPTTT 240 | Db | 181 LVYVDPTTIPPTTT 240 |
| QY | 359 IGGVAVVVFAMLCIIILGRYFARHKGTFTHEAKGADDAADATAIINAEQQNNSE 418 | QY | 359 IGGVAVVVFAMLCIIILGRYFARHKGTFTHEAKGADDAADATAIINAEQQNNSE 418 |
| Db | 241 IGGVAVVVFAMLCIIILGRYFARHKGTFTHEAKGADDAADATAIINAEQQNNSE 300 | Db | 241 IGGVAVVVFAMLCIIILGRYFARHKGTFTHEAKGADDAADATAIINAEQQNNSE 300 |
| QY | 419 KKYP 423 | QY | 419 KKYP 423 |
| Db | 301 KKYP 305 | Db | 301 KKYP 305 |
| RESULT 14 | | | |
| QYQYL6 | PRELIMINARY; PRT; 295 AA. | QYQYL5 | PRELIMINARY; PRT; 289 AA. |
| AC | QYQYL6; QYQYL5; | AC | QYQYL5; |
| DT | 01-MAY-2000 (TrEMBLrel. 13, Created) | DT | 01-MAY-2000 (TrEMBLrel. 13, Created) |
| DT | 01-MAY-2000 (TrEMBLrel. 13, Last sequence update) | DT | 01-MAY-2000 (TrEMBLrel. 13, Last sequence update) |
| DT | 01-OCT-2003 (TrEMBLrel. 25, Last annotation update) | DT | 01-OCT-2003 (TrEMBLrel. 25, Last annotation update) |
| DE | Adhesion protein RAI75A. | DE | Adhesion protein RAI75B. |
| GN | Name=Igsf4a; Synonyms=rai75a; | GN | Name=Igsf4a; Synonyms=rai75b; |
| OS | Mus musculus (Mouse). | OS | Mus musculus (Mouse). |
| OC | Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi; | OC | Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi; |
| OC | Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Mus. | OC | Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Mus. |
| OX | NCBI_TaxID=10090; | OX | NCBI_TaxID=10090; |
| RN | [1] | RN | [1] |
| RP | SEQUENCE FROM N.A. | RP | SEQUENCE FROM N.A. |
| RX | MEDLINE=22683149; PubMed=12799182; DOI=10.1016/S0014-4827(03)00095-8; | RX | MEDLINE=22683149; PubMed=12799182; DOI=10.1016/S0014-4827(03)00095-8; |
| RA | Fujita E., Soyama A., Momoi T.; | RA | Fujita E., Soyama A., Momoi T.; |
| RT | "RAI75, which is the mouse ortholog of TSLC1, a tumor suppressor gene | RT | "RAI75, which is the mouse ortholog of TSLC1, a tumor suppressor gene |
| RT | in human lung cancer, is a cell adhesion molecule."; | RT | in human lung cancer, is a cell adhesion molecule."; |
| RL | Exp. Cell Res. 287:57-66(2003). | RL | Exp. Cell Res. 287:57-66(2003). |
| DR | EMBL; AB021964; BAA87914.1; -. | DR | EMBL; AB021965; BAA87915.1; -. |
| DR | MGD; MGI:1899272; Igsf4a. | DR | MGD; MGI:1899272; Igsf4a. |
| DR | GO; GO:0016021; C:integral to membrane; TAS. | DR | GO; GO:0016021; C:integral to membrane; TAS. |
| DR | GO; GO:0045202; C:synapse; IDA. | DR | GO; GO:0045202; C:synapse; IDA. |
| DR | GO; GO:0008021; C:synaptic vesicle; IDA. | DR | GO; GO:0008021; C:synaptic vesicle; IDA. |
| DR | GO; GO:0005515; P:protein binding; IPI. | DR | GO; GO:0005515; P:protein binding; IPI. |
| DR | GO; GO:0016338; P:calcium-independent cell-cell adhesion; IDA. | DR | GO; GO:0016338; P:calcium-independent cell-cell adhesion; IDA. |
| DR | GO; GO:0007155; P:cell adhesion; IDA. | DR | GO; GO:0007155; P:cell adhesion; IDA. |
| DR | GO; GO:0007416; P:cell adhesion; IDA. | DR | GO; GO:0007416; P:cell adhesion; IDA. |
| DR | InterPro; IPR007110; IG-like. | DR | InterPro; IPR007110; IG-like. |
| DR | InterPro; IPR003598; IG_c2. | DR | InterPro; IPR003598; IG_c2. |
| DR | Pfam; PF00047; ig; 1. | DR | Pfam; PF00047; ig; 1. |
| DR | SMART; SM00294; 4.1m; 1. | DR | SMART; SM00294; 4.1m; 1. |
| DR | SMART; SM00408; IGC2; 1. | DR | SMART; SM00408; IGC2; 1. |
| DR | PROSITE; PS50835; IG_LIKE; 2. | DR | PROSITE; PS50835; IG_LIKE; 2. |
| SQ | SEQUENCE 289 AA; 31811 MW; 8D1B836D0565AEA4 CRC64; | SQ | SEQUENCE 289 AA; 31811 MW; 8D1B836D0565AEA4 CRC64; |

Search completed: June 28, 2005, 09:53:50
Job time : 107.117 secs

THIS PAGE BLANK (USP 101)

GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.

OM protein - protein search, using sw model

Run on: June 28, 2005, 09:38:22 ; Search time 113.452 Seconds
(without alignments)
1442.016 Million cell updates/sec

Title: US-10-622-237-4
Perfect score: 2197
Sequence: 1 APPGRLRLRLRLRLSAAAL.....TALINAGQNNSEKKEYP 423

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 2105692 seqs, 386760381 residues

Total number of hits satisfying chosen parameters: 2105692

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : A_Geneseq_16Dec04:*
1: Genesecp1980s:*
2: Genesecp1990s:*
3: Genesecp2000s:*
4: Genesecp2001s:*
5: Genesecp2002s:*
6: Genesecp2003as:*
7: Genesecp2003bs:*
8: Genesecp2004s:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | DB ID | Description |
|------------|-------|-------------|--------|------------|--------------------|
| 1 | 2197 | 100.0 | 423 | 3 AAY45093 | Aay45093 Mouse lym |
| 2 | 2169 | 98.7 | 442 | 3 AAB25619 | Aab25619 Protein e |
| 3 | 2169 | 98.7 | 442 | 3 AAY94341 | Aay94341 Human cel |
| 4 | 2169 | 98.7 | 442 | 3 AAY45092 | Aay45092 Human lym |
| 5 | 2169 | 98.7 | 442 | 5 AAE19887 | Aae19887 Human tum |
| 6 | 2169 | 98.7 | 442 | 5 ABP62825 | Abp62825 Human pol |
| 7 | 2169 | 98.7 | 442 | 6 ADA27144 | Ada27144 Human nov |
| 8 | 2169 | 98.7 | 442 | 7 ADE34238 | Ade34238 Human pro |
| 9 | 2169 | 98.7 | 442 | 8 ADE86685 | Ade86685 Novel hum |
| 10 | 2166 | 98.6 | 442 | 6 ABO07196 | Abo07196 Human p53 |
| 11 | 2166 | 98.6 | 442 | 6 ABO07231 | Abo07231 Human p53 |
| 12 | 2166 | 98.6 | 442 | 7 ADE61605 | Ade61605 Human pro |
| 13 | 2166 | 98.6 | 442 | 7 ADE61608 | Ade61608 Human pro |
| 14 | 2149 | 97.8 | 440 | 2 AAY17830 | Aay17830 Human pro |
| 15 | 2149 | 97.8 | 440 | 3 AAB01321 | Aab01321 Human pro |
| 16 | 2149 | 97.8 | 440 | 4 AAU29040 | Aau29040 Human pro |
| 17 | 2149 | 97.8 | 440 | 6 ABUS8416 | Abu58416 Human pro |
| 18 | 2149 | 97.8 | 440 | 6 ABUS7964 | Abu87964 Novel hum |
| 19 | 2149 | 97.8 | 440 | 6 ABUS4279 | Abu84279 Human sec |
| 20 | 2149 | 97.8 | 440 | 6 ABR66153 | Abr66153 Human sec |
| 21 | 2149 | 97.8 | 440 | 6 ABR65543 | Abr65543 Human sec |
| 22 | 2149 | 97.8 | 440 | 6 ABUS9483 | Abu9483 Human sec |
| 23 | 2149 | 97.8 | 440 | 6 ABUS5930 | Abu55930 Human sec |
| 24 | 2149 | 97.8 | 440 | 6 ABUS2722 | Abu82722 Human pro |
| 25 | 2149 | 97.8 | 440 | 6 ABUS9843 | Abu89843 Novel hum |

| | | | | | |
|----|------|------|-----|-------------|--------------------|
| 26 | 2149 | 97.8 | 440 | 6 ABR68092 | Abr68092 Human sec |
| 27 | 2149 | 97.8 | 440 | 6 ABUS6145 | Abu96145 Novel hum |
| 28 | 2149 | 97.8 | 440 | 6 ABUS2576 | Abu92576 Human sec |
| 29 | 2149 | 97.8 | 440 | 6 ABO08653 | Abo08653 Human sec |
| 30 | 2149 | 97.8 | 440 | 6 ABO02705 | Abo02705 Human sec |
| 31 | 2149 | 97.8 | 440 | 6 ABR74859 | Abr74859 Human sec |
| 32 | 2149 | 97.8 | 440 | 6 ABR94621 | Abr94621 Human sec |
| 33 | 2149 | 97.8 | 440 | 6 ABUS60240 | Abu60240 Human pro |
| 34 | 2149 | 97.8 | 440 | 6 ABUS5594 | Abu85594 Human pro |
| 35 | 2149 | 97.8 | 440 | 6 ABUS98754 | Abu98754 Novel hum |
| 36 | 2149 | 97.8 | 440 | 6 ABUS97969 | Abu97969 Novel hum |
| 37 | 2149 | 97.8 | 440 | 6 ABUS91675 | Abu91675 Novel hum |
| 38 | 2149 | 97.8 | 440 | 6 ABUS93368 | Abu89368 Human pro |
| 39 | 2149 | 97.8 | 440 | 6 ABUS86209 | Abu86209 Human sec |
| 40 | 2149 | 97.8 | 440 | 6 ABUS67422 | Abu67422 Human sec |
| 41 | 2149 | 97.8 | 440 | 6 ABUS0450 | Abu80450 Human pro |
| 42 | 2149 | 97.8 | 440 | 6 ABR99368 | Abr99368 Human sec |
| 43 | 2149 | 97.8 | 440 | 6 ABR98758 | Abr98758 Human sec |
| 44 | 2149 | 97.8 | 440 | 6 ABO16281 | Abo16281 Human sec |
| 45 | 2149 | 97.8 | 440 | 6 ABR92181 | Abr92181 Human sec |

ALIGNMENTS

RESULT 1

AAAY45093
ID AAY45093 standard; protein; 423 AA.

XX AAY45093;

XX 31-MAY-2000 (first entry)

DE Mouse lymphoid derived dendritic cell adhesion molecule.

KW Lymphoid derived dendritic cell adhesion molecule; LDCAM; mouse; B7-1;
B7-1; T cell proliferation; natural killer cell; NK; tumour cell;
biological activity; quality control reagent; treatment; inflammation;
immune system disorder; autoimmune; viral infection; infectious disease;
organ transplant rejection; bone marrow; modulator; immune response.

XX Mus sp.

| Key | Location/Qualifiers |
|------------------|---|
| FT Domain | 1..356 |
| FT Modified-site | /label= Extracellular_domain 49..51 |
| FT Modified-site | /note= "N-Glycosylation site" 83..85 |
| FT Modified-site | /note= "N-Glycosylation site" 95..97 |
| FT Modified-site | /note= "N-Glycosylation site" 147..149 |
| FT Modified-site | /note= "N-Glycosylation site" 286..288 |
| FT Modified-site | /note= "N-Glycosylation site" 290..292 |
| FT Domain | /note= "N-Glycosylation site" 357..377 |
| FT Domain | /label= Transmembrane_domain 378..423 |
| | /label= Cytoplasmic_domain |

WO200008158-A2.

PD 17-FEB-2000.

XX 05-AUG-1999; 99WO-US017905.

PR 07-AUG-1998; 98US-0095672P.

PA (IMMV) IMMUNEX CORP.

XX

| | | | | |
|----------|--|----|---|---|
| PI | Baum PR, Fanslow WC; | DT | 21-NOV-2000 (first entry) | Protein encoded by human secreted protein gene #11. |
| XX | WPI; 2000-205712/18. | DE | | |
| DR | N-PSDB; AAZ50883. | XX | | |
| XX | Novel molecules designated LDCAM are capable of altering or modulating T cell function. | KW | Secreted protein; immunosuppressant; anti-inflammatory; antiarthritic; antirheumatic, dermatological; antiproliferative; antiarteriosclerotic; anticancer; vulnary; antiviral; antibacterial; antifungal; | |
| PT | | KW | immune disorder; Addison's disease; rheumatoid arthritis; dermatitis; | |
| XX | | KW | multiple sclerosis; inflammatory disorder; inflammatory bowel disease; | |
| PS | Claim 7; Page 46-47; 44pp; English. | KW | Crohn's disease; nephritis; hyperproliferative disorder; | |
| XX | | KW | cardiovascular disorder; coronary arteriosclerosis; myocarditis; cancer; | |
| CC | The present amino acid sequence is the mouse lymphoid derived dendritic cell adhesion molecule, LDCAM. It is found on lymphoid derived dendritic cells and displays homology to adhesion molecules, B7-1 and cytoplasmic region of B7-L1. Mouse LDCAM is found on whole embryo, testes, triple negative cells murine splenic and lymph node CD8+, S49.1 and dendritic cells. LDCAM polypeptides interacts with T cell surface molecules to alter signalling and inhibits T cell proliferation, bind to themselves and B7L-1, an LDCAM binding protein and increases natural killer (NK) cell populations. It may be used to measure the biological activity and as quality control reagents of LDCAM binding proteins. LDCAM may be used for treating disorders associated with malfunctioning of immune system, inflammation, autoimmune disorders, viral infected cells, infectious diseases and for killing tumour cells. They are also useful for prevention or reducing the effect of organ and bone marrow transplant rejection and for modulating T cell immune responses. LDCAM polypeptides may also be used as carriers for delivering agents attached to T cells or cells bearing B7L-1 | OS | Homo sapiens. | |
| XX | | PN | WO200029435-A1. | |
| CC | | XX | | |
| CC | | PD | 25-MAY-2000. | |
| CC | | XX | | |
| CC | | PF | 27-OCT-1999; 99WO-US025031. | |
| CC | | XX | | |
| CC | | PR | 28-OCT-1998; 98US-0105971P. | |
| CC | | XX | | |
| CC | | PA | (HUMA-) HUMAN GENOME SCI INC. | |
| CC | | XX | | |
| CC | | PI | Ni J, Ruben SM, Olsen HS, Young PE, Kenny JJ, Moore PA, Wei Y; Greene JM; | |
| XX | | PI | | |
| XX | | XX | | |
| SQ | Sequence 423 AA; | DR | WPI; 2000-387742/33. | |
| | | XX | | |
| | Query Match 100.0%; Score 2197; DB 3; Length 423; | PT | Isolated nucleic acid molecules encoding human secreted proteins are used for the prevention, amelioration and treatment of autoimmune, inflammatory, hyperproliferative and cardiovascular disorders, cancer, wounds, and infectious diseases. | |
| | Best Local Similarity 100.0%; Pred. No. 2.5e-151; | PT | | |
| | Matches 423; Conservative 0; Mismatches 0; Indels 0; Gaps 0; | PT | | |
| QY | 1 AAPGGLRLRLLLLLLSAAALIPGDCQNLFPTKDVTVIEGEVATISQVKNKSDSVIQLLN 60 | XX | Disclosure; Page 182-183; 803pp; English. | |
| Db | 1 AAPGGLRLRLLLLLLSAAALIPGDCQNLFPTKDVTVIEGEVATISQVKNKSDSVIQLLN 60 | CC | The present invention relates to 12 secreted human proteins and the nucleotide sequences encoding them. The polynucleotide sequences given in | |
| QY | 61 PNRQTIYFRDFRPLKDSRFOLLNFSSELKVSITNVSISDEGRYFCOLYTDPPQESYTTI 120 | CC | AAA80606-AA80623 encode the 12 secreted protein sequences given in | |
| Db | 61 PNRQTIYFRDFRPLKDSRFOLLNFSSELKVSITNVSISDEGRYFCOLYTDPPQESYTTI 120 | CC | AAB25578-B25593. The human secreted proteins have various activities dependent on the tissues in which they are expressed. Examples of the | |
| QY | 121 TVLVPPRLNLMIDIQKTAVEGEIEVNCCTAMASKPATTTIRWFKGNKELKGKSEVEWSDM 180 | CC | activities of the proteins include: immunosuppressant; anti-inflammatory; antiarthritic; antirheumatic, dermatological; antiproliferative; | |
| Db | 121 TVLVPPRLNLMIDIQKTAVEGEIEVNCCTAMASKPATTTIRWFKGNKELKGKSEVEWSDM 180 | CC | antiartherosclerotic; anticancer; vulnary; antiviral; antibacterial; | |
| QY | 181 YTVTSQMLMKVKHEDDGPVICOVEHPAVTGNLQTORYLEVQKPOVHIQMTYPLQGLTR 240 | CC | and antifungal activity. The proteins, polypeptides, agonists and antagonists may be used to treat prevent and/or diagnose various disease, | |
| Db | 181 YTVTSQMLMKVKHEDDGPVICOVEHPAVTGNLQTORYLEVQKPOVHIQMTYPLQGLTR 240 | CC | disorders and conditions examples of which include: immune disorders e.g. Addison's disease, rheumatoid arthritis, dermatitis, and multiple | |
| QY | 241 EGDFAFELTCEAIGKPOPMVWVVRVDEMPQHAVLSPNLFINNKNKTNGTYRCEASNI 300 | CC | sclerosis; inflammatory disorders e.g. inflammatory bowel disease, | |
| Db | 241 EGDFAFELTCEAIGKPOPMVWVVRVDEMPQHAVLSPNLFINNKNKTNGTYRCEASNI 300 | CC | Crohn's disease and nephritis; hyperproliferative disorders such as paraproctinaemias and purpura; cardiovascular disorders e.g. coronary | |
| QY | 301 VGRAHSDYMLYVYDPTTIPPTTTTTTTTTTTTTTTTTTTTTITLITDSRAGEEGTIGAVDHAVIG 360 | CC | arteriosclerosis and myocarditis; cancer e.g. melanoma and lymphoma. The | |
| Db | 301 VGRAHSDYMLYVYDPTTIPPTTTTTTTTTTTTTTTTTTTTTITLITDSRAGEEGTIGAVDHAVIG 360 | CC | proteins and polynucleotide sequences may also be used in wound healing and the treatment of infectious diseases. The human secreted protein gene | |
| QY | 361 GVAVVVFVAMLCIIILGRYFARHKGTYFTHKAGDAADADATAIINAEQGQNNSEKK 420 | CC | #11 and protein sequences are represented in sequences AAA80616 and | |
| Db | 361 GVAVVVFVAMLCIIILGRYFARHKGTYFTHKAGDAADADATAIINAEQGQNNSEKK 420 | CC | AAB25586. Sequences AAA80677-AA80682 represent genes related to the | |
| QY | 421 EYF 423 | CC | secreted protein gene#11 | |
| Db | 421 EYF 423 | XX | | |
| | | SQ | Sequence 442 AA; | |
| | | | Query Match 98.7%; Score 2169; DB 3; Length 442; | |
| | | | Best Local Similarity 98.8%; Pred. No. 2.9e-149; | |
| | | | Matches 418; Conservative 1; Mismatches 4; Indels 0; Gaps 0; | |
| RESULT 2 | | QY | 1 AAPPGRLRLLLLLLSAAALIPGDCQNLFPTKDVTVIEGEVATISQVKNKSDSVIQLLN 60 | |
| AAB25619 | | Db | 19 AAPPGRLRLLLLLLSAAALIPGDCQNLFPTKDVTVIEGEVATISQVKNKSDSVIQLLN 78 | |
| XX | AAB25619 standard; protein; 442 AA. | QY | 61 PNRQTIYFRDFRPLKDSRFOLLNFSSELKVSITNVSISDEGRYFCOLYTDPPQESYTTI 120 | |
| AC | AAB25619; | Db | 79 PNRQTIYFRDFRPLKDSRFOLLNFSSELKVSITNVSISDEGRYFCOLYTDPPQESYTTI 138 | |
| XX | | | | |


```
QY 61 PNRQTIYFRDPLKDSRFQLNFSSELKVSLSLTVNSISDEGRYFCOLYTDPPQESYTTI 120
DB 79 PNRQTIYFRDPLKDSRFQLNFSSELKVSLSLTVNSISDEGRYFCOLYTDPPQESYTTI 138
QY 121 TVLVPPRNLMIDIQKDTAVEGEIEVNCCTAMASKPATTIRWFKNKELKGKSEVBSWSDM 180
DB 139 TVLVPPRNLMIDIQKDTAVEGEIEVNCCTAMASKPATTIRWFKNTELKGKSEVBSWSDM 198
QY 181 YTVTSOLMLKVHKEDDGVPICOVEHPAVTGNLTQRYLEVQYKPVQVHIQMTYPLQGLTR 240
DB 199 YTVTSOLMLKVHKEDDGVPICOVEHPAVTGNLTQRYLEVQYKPVQVHIQMTYPLQGLTR 258
QY 241 EGDAFELTCEAIGKQPQVVMVVRVDEMPQHAVLSGPNLFINNKNKTNGTYRCASNI 300
DB 259 EGDALELTCEAIGKQPQVVMVVRVDEMPQHAVLSGPNLFINNKNKTNGTYRCASNI 318
QY 301 VGKASDYMLYVYDPPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 360
DB 319 VGKASDYMLYVYDPPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 378
QY 361 GVVAVVVFAMLCLLIILGRYFARHKGTFTHEAKGADDAADADATAIINAEKGQNNSEKK 420
DB 379 GVVAVVVFAMLCLLIILGRYFARHKGTFTHEAKGADDAADADATAIINAEKGQNNSEKK 438
QY 421 EYF 423
DB 439 EYF 441

RESULT 4
AAV45092
ID AAV45092 standard; protein; 442 AA.
AC AAV45092;
XX
XX 31-MAY-2000 (first entry)
DE
DE Human lymphoid derived dendritic cell adhesion molecule.
XX
XX Lymphoid derived dendritic cell adhesion molecule; LDCAM; human; B7-1;
KW B7-L1; T cell proliferation; natural killer cell; NK; tumour cell;
KW biological activity; quality control reagent; treatment; inflammation;
KW immune system disorder; autoimmune; viral infection; infectious disease;
KW organ transplant rejection; bone marrow; modulator; immune response.
XX
OS Homo sapiens.
XX
XX Key Location/Qualifiers
FH Domain 1..374
FT /label= Extracellular_domain
FT Peptide 1..38
FT /label= Leader_peptide
FT Protein 39..442
FT /label= Mature_human_ldcam_polypeptide
FT Modified-site 67..69
FT /note= "N-Glycosylation site"
FT Modified-site 101..103
FT /note= "N-Glycosylation site"
FT Modified-site 113..115
FT /note= "N-Glycosylation site"
FT Modified-site 165..167
FT /note= "N-Glycosylation site"
FT Modified-site 304..306
FT /note= "N-Glycosylation site"
FT Modified-site 308..310
FT /note= "N-Glycosylation site"
FT Domain 375..395
FT /label= Transmembrane_domain
FT Domain 396..442
FT /label= Cytoplasmic_domain
XX
XX WO200008158-A2.
```

```
XX
PD 17-FEB-2000.
XX
XX 05-AUG-1999; 99WO-US017905.
XX
PR 07-AUG-1998; 98US-0095672P.
XX
PA (IMMV ) IMMUNEX CORP.
XX
PI Baum PR, Fanslow WC;
XX
XX WPI; 2000-205712/18.
DR N-PSDB; AAZ50882.
XX
XX Novel molecules designated LDCAM are capable of altering or modulating T
PT cell function.
XX
PS Claim 7; Page 42-43; 44pp; English.
XX
XX The present amino acid sequence is the human lymphoid derived dendritic
CC cell adhesion molecule, LDCAM. It is found on lymphoid derived dendritic
CC cells and displays homology to adhesion molecules, B7-1 and cytoplasmic
CC region of B7-L1. Human LDCAM is expressed in breast, retina, foetal
CC liver, spleen and heart, lung, muscle, placenta, thyroid and lung
CC carcinoma. LDCAM polypeptides interacts with T cell surface molecules to
CC alter signalling and inhibits T cell proliferation, bind to themselves
CC and B7L-1, an LDCAM binding protein and increases natural killer (NK)
CC cell populations. It may be used to measure the biological activity and
CC as quality control reagents of LDCAM binding proteins. LDCAM may be used
CC for treating disorders associated with malfunctioning of immune system,
CC inflammation, autoimmune disorders, viral infected cells, infectious
CC diseases and for killing tumour cells. They are also useful for
CC prevention or reducing the effect of organ and bone marrow transplant
CC rejection and for modulating T cell immune responses. LDCAM polypeptides
CC may also be used as carriers for delivering agents attached to T cells or
CC cells bearing B7L-1
XX
SQ Sequence 442 AA;
Query Match 98.7%; Score 2169; DB 3; Length 442;
Best Local Similarity 98.8%; Pred. No. 2.9e-149;
Matches 418; Conservative 1; Mismatches 149; Indels 0; Gaps 0;
QY 1 AAPPGRLRLRLLLLSAAALIPGDCQNLFPTKDVTVIEGEVATISQVKNKSDSVIQLLN 60
DB 19 AAPPGRLRLRLLLLSAAALIPGDCQNLFPTKDVTVIEGEVATISQVKNKSDSVIQLLN 78
QY 61 PNRQTIYFRDPLKDSRFQLNFSSELKVSLSLTVNSISDEGRYFCOLYTDPPQESYTTI 120
DB 79 PNRQTIYFRDPLKDSRFQLNFSSELKVSLSLTVNSISDEGRYFCOLYTDPPQESYTTI 138
QY 121 TVLVPPRNLMIDIQKDTAVEGEIEVNCCTAMASKPATTIRWFKNKELKGKSEVBSWSDM 180
DB 139 TVLVPPRNLMIDIQKDTAVEGEIEVNCCTAMASKPATTIRWFKNTELKGKSEVBSWSDM 198
QY 181 YTVTSOLMLKVHKEDDGVPICOVEHPAVTGNLTQRYLEVQYKPVQVHIQMTYPLQGLTR 240
DB 199 YTVTSOLMLKVHKEDDGVPICOVEHPAVTGNLTQRYLEVQYKPVQVHIQMTYPLQGLTR 258
QY 241 EGDAFELTCEAIGKQPQVVMVVRVDEMPQHAVLSGPNLFINNKNKTNGTYRCASNI 300
DB 259 EGDALELTCEAIGKQPQVVMVVRVDEMPQHAVLSGPNLFINNKNKTNGTYRCASNI 318
QY 301 VGKASDYMLYVYDPPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 360
DB 319 VGKASDYMLYVYDPPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 378
QY 361 GVVAVVVFAMLCLLIILGRYFARHKGTFTHEAKGADDAADADATAIINAEKGQNNSEKK 420
DB 379 GVVAVVVFAMLCLLIILGRYFARHKGTFTHEAKGADDAADADATAIINAEKGQNNSEKK 438
QY 421 EYF 423
DB 439 EYF 442
|||
```

Db 439 EYF 441

RESULT 5
AAE19887
ID AAE19887 standard; protein; 442 AA.
XX AC AAE19887;
XX AC AAE19887;
XX DT 18-JUN-2002 (first entry)
XX DE Human tumour suppressor lung cancer 1 (TSLC1) polypeptide.
XX KW Human; hepatocellular carcinoma; tumour suppressor lung cancer 1; TSLC1;
XX KW liver; lung; pancreatic cancer; cell proliferative disorder; cytostatic;
XX KW gene therapy.
XX OS Homo sapiens.
XX PN WO200214557-A1.
XX PD 21-FEB-2002.
XX PF 15-AUG-2001; 2001WO-US025690.
XX PR 15-AUG-2000; 2000US-0225264P.
XX PA (UYJO) UNIV JOHNS HOPKINS SCHOOL MEDICINE.
XX PI Reeves RH, Yoshinori M;
XX DR WPI; 2002-241913/29.
XX PT Detecting cell proliferative disorder associated with tumor suppressor
XX PT lung cancer (TSLC) 1 in subject, comprises contacting proliferating cell
XX PT of subject with reagent detecting TSLC1 and detecting modification in
XX PT TSLC1 level.
XX PS Disclosure; Page 49-50; 59pp; English.
XX CC The invention relates to a method for detecting cell proliferative
XX CC disorder associated with tumour suppressor lung cancer 1 (TSLC1) in a
XX CC subject. The method comprising contacting a cell component of a
XX CC proliferating cell with a reagent that detects level of the cell
XX CC component in the proliferating cell and determining modification in the
XX CC level of the cell component in proliferating cell as compared with a
XX CC healthy cell, where modification indicates disorder associated with
XX CC TSLC1. The method is useful for detecting a cell proliferative disorder
XX CC (e.g. liver, lung or pancreatic cancer) associated with tumour suppressor
XX CC lung cancer 1 (TSLC1) in a subject. The invention is useful in gene
XX CC therapy and for treating a cell proliferative disorder such as lung
XX CC cancer (human non-small cell lung cancer), liver cancer (hepatocellular
XX CC carcinoma) or pancreatic cancer associated with modification of TSLC1
XX CC production, where a reagent which modulates (preferably, increases) TSLC1
XX CC level in the cells, is employed. The present sequence is human TSLC1

Qy 1 AAPPGLRLRLRLRLRLSAAALPTGDGQNLFTKDVTVIEGEVATISCVQNKSDSDSVIQLLN 60
Db 19 AAPPGLRLRLRLRLSAAALPTGDGQNLFTKDVTVIEGEVATISCVQNKSDSDSVIQLLN 78
Qy 61 PNRQTYIFRDLKDSRFOLLNFSSELKVSILTNVISIDEGRYFCOLYTDPPQESYTTI 120
Db 79 PNRQTYIFRDLKDSRFOLLNFSSELKVSILTNVISIDEGRYFCOLYTDPPQESYTTI 138
Qy 121 TLVLPRLNLMIDIKQDTAVGEIEVNTACTAMASKPATTFIWFKNELKKGKSEVEESDM 180
Db 139 TLVLPRLNLMIDIKQDTAVGEIEVNTACTAMASKPATTFIWFKNELKKGKSEVEESDM 198

Qy 181 YVTISQLMLKVHKEDDGPVICOVEHPAVTGNLQTOYILEVQKPOVHIQMTYPLQGLTR 240
Db 199 YVTISQLMLKVHKEDDGPVICOVEHPAVTGNLQTOYILEVQKPOVHIQMTYPLQGLTR 258
Qy 241 EGDAPELTCEAIGKPOPVVMTVVRVDEMPQOHAVALSPGNLFNNLKNKTNDNGTYRCEASNI 300
Db 259 EGDALLETCEAIGKPOPVVMTVVRVDEMPQOHAVALSPGNLFNNLKNKTNDNGTYRCEASNI 318
Qy 301 VGKASHDYMLYVYDPTTIPPTTT 360
Db 319 VGKASHDYMLYVYDPTTIPPTTT 378
Qy 361 GVVAVVVFAMLCILIIILGRYFARHKCTYTHEAKGADDAADATAIINABGGQNNSEKK 420
Db 379 GVVAVVVFAMLCILIIILGRYFARHKCTYTHEAKGADDAADATAIINABGGQNNSEKK 438
Qy 421 EYF 423
Db 439 EYF 441

RESULT 6
ABP62825
ID ABP62825 standard; protein; 442 AA.
XX AC ABP62825;
XX DT 14-OCT-2002 (first entry)
XX DE Human polypeptide SEQ ID NO 262.
XX KW Human; vulvury; dermatological; neuroprotective; nootropic; cancer;
XX KW antiparkinsonian; immunostimulant; cytostatic; immunosuppressive;
XX KW antidiabetic; antiallergic; gene therapy; wound healing; tissue repair;
XX KW burn; central nervous system disorder; Alzheimer's disease;
XX KW Parkinson's disease; Huntington's disease; immune disorder;
XX KW autoimmune disorder; multiple sclerosis; diabetes; allergy.
XX OS Homo sapiens.
XX PN WO200218424-A2.
XX PD 07-MAR-2002.
XX PF 31-AUG-2001; 2001WO-US027093.
XX PR 01-SEP-2000; 2000US-00654935.
XX PA (HYSB-) HYSEQ INC.
XX PI Tang YT, Asundi V, Zhou P, Xue AJ, Ren F, Zhang J, Wang J;
XX PI Zhao QA, Wang D, Liu C, Drmanac RT, Wehrman T;
XX DR WPI; 2002-583321/62.
XX DR N-PSDB; ABQ93304.
XX PT New polynucleotide and polypeptides, useful for treatment and diagnosis
XX PT of Alzheimer's, Parkinson's, Huntington's, amyotrophic lateral
XX PT sclerosis, immune deficiencies, cancer, autoimmune disorders, multiple
XX PT sclerosis, diabetes and allergies.
XX PS Claim 20; SEQ ID NO 262; 284pp + Sequence Listing; English.
XX CC The invention relates to an isolated polynucleotide (I) comprising one of
XX CC 245 sequences (ABQ93288-ABQ93532). Treating a condition comprising
XX CC administering to a mammalian subject a composition comprising the protein
XX CC (II) encoded by (I) (ABP62809-ABP63053) or an antibody (III) to (II).
XX CC (I), (II) and (III) are useful for diagnostic evaluation of disorders.
XX CC (I) is useful for gene therapy of diseases and (II) can be used for
XX CC therapeutic treatment. Diseases that may be treated include wound healing
XX CC and tissue repair, burns, central nervous system disorders (e.g.
XX CC Alzheimer's, Parkinson's, Huntington's and amyotrophic lateral

```
CC sclerosis), immune deficiencies, cancer, autoimmune disorders, multiple
CC sclerosis, diabetes and allergies. Note: The sequence data for this
CC patent did not form part of the printed specification, but was obtained
CC in electronic format directly from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences
XX
SQ Sequence 442 AA;
Query Match 98.7%; Score 2169; DB 5; Length 442;
Best Local Similarity 98.8%; Pred. No. 2.9e-149;
Matches 418; Conservative 1; Mismatches 4; Indels 0; Gaps 0;
QY 1 AAPPGRLRLRLLLLSAAALIPGTGQNLFTKDVTVIEGEVATISQVKNKSDSVIQLLN 60
Db 19 AAPPGRLRLRLLLLSAAALIPGTGQNLFTKDVTVIEGEVATISQVKNKSDSVIQLLN 78
QY 61 PNRQTIYFRDRLKDSRFQLLNFSSSELKVSITNVSISDEGRYFCQLYTDPPEQSYTTI 120
Db 79 PNRQTIYFRDRLKDSRFQLLNFSSSELKVSITNVSISDEGRYFCQLYTDPPEQSYTTI 138
QY 121 TVLVPPRNLMIDIQKDTAVEGEEIEVNCAMASKPATTIIRWFKGNKELKGKSEVEWSDM 180
Db 139 TVLVPPRNLMIDIQKDTAVEGEEIEVNCAMASKPATTIIRWFKGNKELKGKSEVEWSDM 198
QY 181 YTVTSQMLMKVHKEDDGPVVCQVEHPAVTGNLQRYLEVOYKQPVHIQMTYPLQGLTR 240
Db 199 YTVTSQMLMKVHKEDDGPVVCQVEHPAVTGNLQRYLEVOYKQPVHIQMTYPLQGLTR 258
QY 241 EGDAFELTCEAIGKQPQVWTVRVDDMPQHAVLSGPNLFINNKNKTNGTYRCASNI 300
Db 259 EGDALLETCEAIGKQPQVWTVRVDDMPQHAVLSGPNLFINNKNKTNGTYRCASNI 318
QY 301 VGRAHSDYMLVYVDPPTIIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 360
Db 319 VGRAHSDYMLVYVDPPTIIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 378
QY 361 GVAVVVFAMLCLLIILGRYFARHKGTYFTHEAKGADDAADATAIINAEQGQNNSEKK 420
Db 379 GVAVVVFAMLCLLIILGRYFARHKGTYFTHEAKGADDAADATAIINAEQGQNNSEKK 438
QY 421 EYF 423
Db 439 EYF 441
RESULT 7
ADA27144
ID ADA27144 standard; protein; 442 AA.
XX
AC ADA27144;
XX
DT 20-NOV-2003 (first entry)
XX
DE Human novel secreted protein from gene 11 #3.
XX
KW cytosolic; antiinflammatory; immunomodulator; neuroprotective;
KW hemostatic; gene therapy; cancer; inflammation; immune disorder;
KW neurological disorder; blood clotting disorder; food additive;
KW preservative; human; secreted protein.
XX
OS Homo sapiens.
XX
PN US2003055231-A1.
XX
PD 20-MAR-2003.
XX
PF 29-OCT-2001; 2001US-00984130.
XX
PR 28-OCT-1998; 98US-0105971P.
PR 27-OCT-1999; 99WO-US025031.
PR 19-APR-2000; 2000US-0198407P.
PR 30-OCT-2000; 2000US-0243792P.
PR 18-APR-2001; 2001US-00836353.
```

```
XX (NIJ)/ NI J.
PA (YOUNG/) YOUNG P E.
PA (KENN/) KENNY J J.
PA (OLSE/) OLSEN H S.
PA (MOOR/) MOORE P A.
PA (WEIY/) WEI Y.
PA (GREE/) GREENE J M.
PA (RUBE/) RUBEN S M.
PA (LIUD/) LIU D.
PA (CROC/) CROCKER P R.
XX
PI Ni J, Young PE, Kenny JJ, Olsen HS, Moore PA, Wei Y, Greene JM;
PI Ruben SM, Liu D, Crocker PR;
XX WPI; 2003-567103/53.
DR
XX New human secreted nucleic acid molecules and polypeptides, useful for
PT preventing, treating, or ameliorating a medical condition, such as
PT cancer, inflammation, immune disorders, neurological and blood clotting
PT disorders.
XX
PS Disclosure; Page 72; 454pp; English.
XX
CC The invention relates to an isolated nucleic molecule that is at least
CC 95% identical to 18 human cDNA sequences representing 12 novel genes
CC encoding secreted proteins or a polynucleotide fragment of the cDNA
CC sequence contained in American Type Culture Collection (ATCC) deposit No.
CC defined in the specification, its species homologue, a variant or allelic
CC variant of the polynucleotide having a polynucleotide capable of
CC hybridizing under conditions the polynucleotide, where the polynucleotide
CC does not hybridise under stringent conditions to a nucleic acid molecule
CC having a nucleotide sequence of only A or T residues. Also included are
CC recombinant vectors, host cells (for producing the polypeptide), the
CC secreted polypeptide (comprising a sequence that is at least 95%
CC identical to a polypeptide fragment, domain, epitope, full-length
CC protein, variant, allelic variant or species homologue), antibodies that
CC specifically bind to the polypeptides, diagnosing, treating, preventing
CC or ameliorating a medical condition by administering the polynucleotide
CC or the polypeptide, the gene corresponding to the cDNA sequence and
CC identifying an activity in a biological assay (by expressing the cDNA
CC sequence in a cell, isolating the supernatant, and detecting an activity
CC in a biological assay and identifying the protein in the supernatant
CC having the activity). The polypeptides, nucleic acids and antibodies are
CC useful for diagnosing a pathological condition or a susceptibility to a
CC pathological condition, for preventing, treating, or ameliorating a
CC medical condition, such as cancer, inflammation and other immune
CC disorders, neurological and blood clotting disorders (many examples are
CC given in the specification). The nucleic acids are also useful for
CC chromosome identification, radiation hybrid mapping or long-range
CC restriction mapping. The polypeptides and antibodies are useful for
CC providing immunological probes for differential identification of the
CC tissues immunohistochemistry assays. The polypeptide, polynucleotide,
CC agonist or antagonist may also be used as a food additive or preservative
CC to increase or decrease storage capabilities, fat content or other
CC nutritional components. The present is a secreted protein of the
CC invention.
XX
SQ Sequence 442 AA;
Query Match 98.7%; Score 2169; DB 6; Length 442;
Best Local Similarity 98.8%; Pred. No. 2.9e-149;
Matches 418; Conservative 1; Mismatches 4; Indels 0; Gaps 0;
QY 1 AAPPGRLRLRLLLLSAAALIPGTGQNLFTKDVTVIEGEVATISQVKNKSDSVIQLLN 60
Db 19 AAPPGRLRLRLLLLSAAALIPGTGQNLFTKDVTVIEGEVATISQVKNKSDSVIQLLN 78
QY 61 PNRQTIYFRDRLKDSRFQLLNFSSSELKVSITNVSISDEGRYFCQLYTDPPEQSYTTI 120
Db 79 PNRQTIYFRDRLKDSRFQLLNFSSSELKVSITNVSISDEGRYFCQLYTDPPEQSYTTI 138
QY 121 TVLVPPRNLMIDIQKDTAVEGEEIEVNCAMASKPATTIIRWFKGNKELKGKSEVEWSDM 180
```


Db 139 TVLVPPRLMIDIQKDTAVEGEEVNCATWASKPATTIRWFKGNTLKGKSEVEEWSDM 198
Qy 181 YTVTSQMLKVKHEDDGPVVICQVEHPAVTGNLQRYLEVQYKQPVQVHIQMTYPLQGLTR 240
Db 199 YTVTSQMLKVKHEDDGPVVICQVEHPAVTGNLQRYLEVQYKQPVQVHIQMTYPLQGLTR 258
Qy 241 EGDAFELTCEAIGKQPOVMVTVVRVDDMPQHAVLSGPNLFINNLTNDGTGRCEASNI 300
Db 259 EGDALEUTCEAIGKQPOVMVTVVRVDDMPQHAVLSGPNLFINNLTNDGTGRCEASNI 318
Qy 301 VGKAHSDYMLYVDPPTTIPPTTTTTTTTTTTTTTTTTTTTTITDSRAGEEGTIGAVDHA VIG 360
Db 319 VGKAHSDYMLYVDPPTTIPPTTTTTTTTTTTTTTTTTTTTTITDSRAGEEGTIGAVDHA VIG 378
Qy 361 GVAVVVFAMLCIIILGRYFARHKGTFTHEAKGADDAADADATAIINAEGGQNNSEKK 420
Db 379 GVAVVVFAMLCIIILGRYFARHKGTFTHEAKGADDAADADATAIINAEGGQNNSEKK 438
Qy 421 EYF 423
Db 439 EYF 441

RESULT 8
ADE54238
ID ADE54238 standard; protein; 442 AA.

XX ADE54238;
AC AC
DT 29-JAN-2004 (first entry)

XX Human Protein NP_055148, SEQ ID NO 41.

XX Human; pain; neuronal tissue; gene therapy;
KW spinal segmental nerve injury; chronic constriction injury;CCI;
KW spared nerve injury; SNI; Chung.
XX Homo sapiens.

XX WO2003016475-A2.

XX 27-FEB-2003.

XX 14-AUG-2002; 2002WO-US025765.

XX 14-AUG-2001; 2001US-0312147P.

PR 01-NOV-2001; 2001US-0346382P.

BR 26-NOV-2001; 2001US-0333347P.

XX (GEHO) GEN HOSPITAL CORP.

PA (FARB) BAYER AG.

XX Woolf C, D'urso D, Befort K, Costigan M;

XX WPI; 2003-268312/26.

DR GENBANK; NP_055148.

XX New composition comprising two or more isolated polypeptides, useful for

XX preparing a medicament for treating pain in an animal.

XX Claim 1; Page; 1017pp; English.

XX The invention discloses a composition comprising two or more isolated rat
CC or human polynucleotides or a polynucleotide which represents a fragment,
CC derivative or allelic variation of the nucleic acid sequence. Also
CC claimed are a vector comprising the novel polynucleotide, a host cell
CC comprising the vector, a method for identifying a nucleotide sequence
CC which is differentially regulated in an animal subjected to pain and a
CC kit to perform the method, an array, a method for identifying an agent
CC that increases or decreases the expression of the polynucleotide sequence
CC that is differentially expressed in neuronal tissue of a first animal
CC subjected to pain, a method for identifying a compound which regulates

CC the expression of a polynucleotide sequence which is differentially
CC expressed in an animal subjected to pain, a method for identifying a
CC compound that regulates the activity of one or more of the
CC polynucleotides, a method for producing a pharmaceutical composition, a
CC method for identifying a compound or small molecule that regulates the
CC activity in an animal of one or more of the polypeptides given in the
CC specification, a method for identifying a compound useful in treating
CC pain and a pharmaceutical composition comprising the one or more
CC polypeptides or their antibodies. the polynucleotide or the compound that
CC modulates its activity is useful for preparing a medicament for treating
CC pain (e.g. spinal segmental nerve injury (Chung), chronic constriction
CC injury (CCI) and spared nerve injury (SNI)) in an animal (e.g. gene
CC therapy). The sequence presented is a human protein (shown in Table 2 of
CC the specification) which is differentially expressed during pain. Note:
CC the sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic form directly from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences.

XX SQ Sequence 442 AA;

Query Match 98.7%; Score 2169; DB 7; Length 442;
Best Local Similarity 98.8%; Pred. No. 2.9e-149;
Matches 418; Conservative 1; Mismatches 4; Indels 0; Gaps 0;

Qy 1 AAPPGRLRLRLLLLSAALIPTGCGNLFTKDVTVIEGEVATISQVNVKSDSDSVIQLLN 60
Db 19 AAPPGRLRLRLLLLSAALIPTGCGNLFTKDVTVIEGEVATISQVNVKSDSDSVIQLLN 78
Qy 61 PNRQTIYFRDPRPLKDSRFQLLNFSSSELKVSILTNVSIISDEGRYFCOLYTDPPQESYTTI 120
Db 79 PNRQTIYFRDPRPLKDSRFQLLNFSSSELKVSILTNVSIISDEGRYFCOLYTDPPQESYTTI 138
Qy 121 TVLVPPRLMIDIQKDTAVEGEEIEVNCATWASKPATTIRWFKGNTLKGKSEVEEWSDM 180
Db 139 TVLVPPRLMIDIQKDTAVEGEEIEVNCATWASKPATTIRWFKGNTLKGKSEVEEWSDM 198
Qy 181 YTVTSQMLKVKHEDDGPVVICQVEHPAVTGNLQRYLEVQYKQPVQVHIQMTYPLQGLTR 240
Db 199 YTVTSQMLKVKHEDDGPVVICQVEHPAVTGNLQRYLEVQYKQPVQVHIQMTYPLQGLTR 258
Qy 241 EGDAFELTCEAIGKQPOVMVTVVRVDDMPQHAVLSGPNLFINNLTNDGTGRCEASNI 300
Db 259 EGDALEUTCEAIGKQPOVMVTVVRVDDMPQHAVLSGPNLFINNLTNDGTGRCEASNI 318
Qy 301 VGKAHSDYMLYVDPPTTIPPTTTTTTTTTTTTTTTTTTTTTITDSRAGEEGTIGAVDHA VIG 360
Db 319 VGKAHSDYMLYVDPPTTIPPTTTTTTTTTTTTTTTTTTTTTITDSRAGEEGTIGAVDHA VIG 378
Qy 361 GVAVVVFAMLCIIILGRYFARHKGTFTHEAKGADDAADADATAIINAEGGQNNSEKK 420
Db 379 GVAVVVFAMLCIIILGRYFARHKGTFTHEAKGADDAADADATAIINAEGGQNNSEKK 438
Qy 421 EYF 423
Db 439 EYF 441

RESULT 9
ADE86685
ID ADE86685 standard; protein; 442 AA.

XX ADE86685;

XX 29-JAN-2004 (first entry)

XX Novel human secreted protein #11 associated protein #1.

XX human; secreted protein; cancer; liver disorder; hepatitis;
KW neural disorder; Alzheimer's disease.

XX Homo sapiens.

XX US2003129685-A1.

XX 10-JUL-2003.
XX 18-APR-2001; 2001US-00836353.
XX 28-OCT-1998; 98US-0105971P.
XX 27-OCT-1999; 99WO-US025031.
XX 19-APR-2000; 2000US-0198407P.
XX (NIJJ/) NI J.
XX (YOUN/) YOUNG P E.
XX (KENN/) KENNY J J.
XX (OLSE/) OLSEN H S.
XX (MOOR/) MOORE P A.
XX (WEIY/) WEI Y.
XX (GREE/) GREENE J M.
XX (RUBE/) RUBEN S M.
XX Ni J, Young PE, Kenny JJ, Olsen HS, Moore PA, Wei Y, Greene JM;
PI Ruben SM;
XX WPI; 2004-020335/02.
XX New nucleic acid molecule, useful for preparing a medicament for
PT preventing, treating or ameliorating a medical condition e.g. cancer,
PT liver disorders or neural disorders.
XX Disclosure; SEQ ID NO 136; 380pp; English.
XX The invention relates to an isolated nucleic acid sequence, or its
CC allelic variant, a fragment of the cDNA sequence, or its fragment,
CC domain, epitope or species homologue. The nucleic acid is useful for
CC preparing a medicament for preventing, treating or ameliorating a medical
CC condition e.g., cancer, liver disorders such as hepatitis or neural
CC disorders such as Alzheimer's disease. The present sequence represents
CC the amino acid sequence of a novel human secreted protein associated
CC protein.
XX
SQ Sequence 442 AA;
Query Match 98.7%; Score 2169; DB 8; Length 442;
Best Local Similarity 98.8%; Pred. No. 2.9e-149;
Matches 418; Conservative 1; Mismatches 4; Indels 0; Gaps 0;
QY 1 AAPPGLRLRLLLLSAAALPTGDQNLFTKDVTVIEGEVATISQVKNKSDSVQLLN 60
DB 19 AAPPGLRLRLLLLSAAALPTGDQNLFTKDVTVIEGEVATISQVKNKSDSVQLLN 78
QY 61 PNQTIYFRDRLKDSRFQLLNFSSSELKSVLTNVSISDEGRYFCQLYTDPPQESYTTI 120
DB 79 PNQTIYFRDRLKDSRFQLLNFSSSELKSVLTNVSISDEGRYFCQLYTDPPQESYTTI 138
QY 121 TVLVPPRNLMIDTQKDTAVEGEIEVNCNTAMASKPATITIRWFKGNELKKGKSEVEWSDM 180
DB 139 TVLVPPRNLMIDTQKDTAVEGEIEVNCNTAMASKPATITIRWFKGNELKKGKSEVEWSDM 198
QY 181 YTVTSQMLKVKHEDDQVPVICOVEHPAVTGNLQRYLEVOYKQPVHIOQMTYPLQGLTR 240
DB 199 YTVTSQMLKVKHEDDQVPVICOVEHPAVTGNLQRYLEVOYKQPVHIOQMTYPLQGLTR 258
QY 241 EGDFAELTCEAIGKQPQVMVTVVRVDDMPHVAVLSPGNLFINNKNKTDNGTYRCASNI 300
DB 259 EGDALFLTCEAIGKQPQVMVTVVRVDDMPHVAVLSPGNLFINNKNKTDNGTYRCASNI 318
QY 301 VGKASDYMVLVYDDPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 360
DB 319 VGKASDYMVLVYDDPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 378
QY 361 GVAVVVFVAMLCLLIILGRYFARHKGTYFTHEAKGADDAADADATAINAEGGQNNSEKK 420
DB 379 GVAVVVFVAMLCLLIILGRYFARHKGTYFTHEAKGADDAADADATAINAEGGQNNSEKK 438
QY 421 EYF 423

Db 439 EYF 441
RESULT 10
ABO07196
ID ABO07196 standard; protein; 442 AA.
XX ABO07196;
XX 13-AUG-2003 (first entry)
DE Human p53 modifying protein, SEQ ID 156.
XX Human; p53 modifier; cytostatic; cancer; cytostatic; antiangiogenic;
KW antiapoptotic; p53 pathway; breast cancer; colon cancer; kidney cancer;
KW lung cancer; ovarian cancer; angiogenesis; cell cycle;
KW apoptotic disorder; cell proliferation disorder.
XX Homo sapiens.
OS WO200299122-A1.
PN 12-DEC-2002.
XX 03-JUN-2002; 2002WO-US017382.
XX 05-JUN-2001; 2001US-0296076P.
PR 10-OCT-2001; 2001US-0328605P.
PR 15-FEB-2002; 2002US-0357253P.
XX (EXEL-) EXELIXIS INC.
XX Friedman L, Plowman GD, Belvin M, Francis-Lang H, Li D, Funke RP;
PI WPI; 2003-156859/15.
XX N-PSDB; AC013371.
DR Identifying modulators of the p53 pathway for use in treating apoptotic
PT or cell proliferation disorders, comprises screening for agents that
PT modulate activity of a human ortholog of genes that modify the p53
PT pathway in Drosophila.
XX Example 2; Page 469-470; 678pp; English.
XX The invention relates to identifying (M1) a candidate p53 pathway
CC modulating agent, by contacting an assay system comprising a purified HM
CC polypeptide (human orthologue of genes that modify the p53 pathway in
CC Drosophila) or nucleic acid with a test agent under conditions, where but
CC for the presence of the test agent, the system provides a reference
CC activity, and detecting a test agent-biased activity of the assay system.
CC Also included are modulating (M2) a p53 pathway of a cell (comprising
CC contacting a cell defective in p53 function with a candidate modulator
CC that specifically binds to a HM polypeptide comprising an HM amino acid
CC sequence, where p53 function is restored), modulating (M3) a p53 pathway
CC in a mammalian cell (comprising contacting the cell with an agent that
CC specifically binds an HM polypeptide or nucleic acid) and diagnosing (M4)
CC a disease in a patient (comprising: (a) obtaining a biological sample
CC from the patient; (b) contacting the sample with a probe for HM
CC expression; (c) comparing the results with a control; and (d) determining
CC whether the comparison indicates a likelihood disease). (M1) is useful
CC for identifying modulators of the p53 pathway. A probe for HM expression
CC is useful for diagnosing breast, colon, kidney, lung and ovarian cancer,
CC in a patient, where the cancer has greater than 25 % expression level.
CC Modulators identified by (M1) are useful in a variety of diagnostic and
CC therapeutic applications, where disease or disorder prognosis is related
CC to defects in the p53 pathway, such as, angiogenesis, apoptotic or cell
CC proliferation disorders (e.g. cancer). Another two new methods (M2 and
CC M3) are useful for modulating the p53 pathway of a cell, thus restoring
CC the p53 function of the cell, so that the cell undergoes normal
CC proliferation or progression through the cell cycle. (M2) and (M3) are
CC also useful for treating defects in the p53 pathway such as angiogenic,
CC apoptotic or cell proliferation disorders. The present sequence

| | | | |
|-----------|---|---------------------------|---|
| QY | 421 EYF 423 | Query Match | 98.6%; Score 2166; DB 7; Length 442; |
| Db | 439 EYF 441 | Best Local Similarity | 98.6%; Pred. No. 4.8e-149; |
| | | Matches 417; Conservative | 2; Mismatches 4; Indels 0; Gaps 0; |
| RESULT 12 | | | |
| AD61605 | | 1 | AAPPGLRLRLLLLLLSAAALIPITGDQNLFTKDVTVIEGEVATISQVNVKSDSDSVIQLLN 60 |
| ID | ADE61605 standard; protein; 442 AA. | 19 | AAPPGLRLRLLLLLLSAAALIPITGDQNLFTKDVTVIEGEVATISQVNVKSDSDSVIQLLN 78 |
| AC | AD61605; | 61 | PNRQTIYFRDFRPLKDSRFQLLNFSSELKVSITNVSISDEGRYFCOLYTDPPQESYTTI 120 |
| XX | | 79 | PNRQTIYFRDFRPLKDSRFQLLNFSSELKVSITNVSISDEGRYFCOLYTDPPQESYTTI 138 |
| DT | 29-JAN-2004 (first entry) | 121 | TVLVPPRNLMIDIQKDTAVEGEIEVNCCTAMASKPATITIRWFKGNKELXGKSEVEESDM 180 |
| XX | Human Protein AAF69029, SEQ ID NO 7525. | 139 | TVLVPPRNLMIDIQKDTAVEGEIEVNCCTAMASKPATITIRWFKGNKELXGKSEVEESDM 198 |
| DE | | 181 | YTVTSOLMLKVHKEDDGVPIQVEHPAVTGNLQRYLEVQYKPOVHIOMTYPLQGLTR 240 |
| KW | Human; pain; neuronal tissue; gene therapy; | 199 | YTVTSOLMLKVHKEDDGVPIQVEHPAVTGNLQRYLEVQYKPOVHIOMTYPLQGLTR 258 |
| KW | spinal segmental nerve injury; chronic constriction injury; CCI; | 241 | EGDAPELTCEAIGKQPQVMVTVRVDDENPOHVLSGPNLFINNLNKTONGTVRCEASNI 300 |
| KW | spared nerve injury; SNI; Chung. | 259 | EGDAPELTCEAIGKQPQVMVTVRVDDENPOHVLSGPNLFINNLNKTONGTVRCEASNI 318 |
| OS | Homo sapiens. | 301 | VGKAHSDYMLYVYDPTTIPPTTT 360 |
| XX | | 319 | VGKAHSDYMLYVYDPTTIPPTTT 378 |
| PN | WO2003016475-A2. | 361 | GVVAVVVFAMLCILLIILGRYFARHKGTFTHEAKGADDAADADTAIINAEAGGONNSEKK 420 |
| XX | 27-FEB-2003. | 379 | GVVAVVVFAMLCILLIILGRYFARHKGTFTHEAKGADDAADADTAIINAEAGGONNSEKK 438 |
| XX | 14-AUG-2002; 2002WO-US025765. | 421 EYF 423 | |
| XX | | 439 EYF 441 | |
| XX | 14-AUG-2001; 2001US-0312147P. | | |
| PR | 01-NOV-2001; 2001US-0346382P. | | |
| PR | 26-NOV-2001; 2001US-0333347P. | | |
| XX | (GEHO) GEN HOSPITAL CORP. | | |
| PA | (FARB) BAYER AG. | | |
| PI | Woelf C, D'urso D, Befort K, Costigan M; | | |
| XX | WPI; 2003-268312/26. | | |
| DR | GENBANK; AAF69029. | | |
| XX | | | |
| PT | New composition comprising two or more isolated polypeptides, useful for preparing a medicament for treating pain in an animal. | | |
| PS | Claim 1; Page; 1017pp; English. | | |
| CC | The invention discloses a composition comprising two or more isolated rat or human polynucleotides or a polynucleotide which represents a fragment, derivative or allelic variation of the nucleic acid sequence. Also claimed are a vector comprising the novel polynucleotide, a host cell comprising the vector, a method for identifying a nucleotide sequence which is differentially regulated in an animal subjected to pain and a kit to perform the method, an array, a method for identifying an agent that increases or decreases the expression of the polynucleotide sequence that is differentially expressed in neuronal tissue of a first animal subjected to pain, a method for identifying a compound which regulates the expression of a polynucleotide sequence which is differentially expressed in an animal subjected to pain, a method for identifying a compound that regulates the activity of one or more of the polynucleotides, a method for producing a pharmaceutical composition, a method for identifying a compound or small molecule that regulates the activity in an animal of one or more of the polypeptides given in the specification, a method for identifying a compound useful in treating pain and a pharmaceutical composition comprising the one or more polypeptides or their antibodies. The polynucleotide or the compound that modulates its activity is useful for preparing a medicament for treating pain (e.g. spinal segmental nerve injury (SNI)), chronic constriction injury (CCI) and spared nerve injury (SNI)) in an animal (e.g. gene therapy). The sequence presented is a human protein (shown in Table 2 of the specification) which is differentially expressed during pain. Note: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic form directly from WIPO at fcp.wipo.int/pub/published_pct_sequences. | | |
| XX | Sequence 442 AA; | | |

PT New composition comprising two or more isolated polypeptides, useful for

PT preparing a medicament for treating pain in an animal.
PS Claim 1; Page; 1017pp; English.
XX

CC The invention discloses a composition comprising two or more isolated rat
CC or human polynucleotides or a polynucleotide which represents a fragment,
CC derivative or allelic variation of the nucleic acid sequence. Also
CC claimed are a vector comprising the novel polynucleotide, a host cell
CC comprising the vector, a method for identifying a nucleotide sequence
CC which is differentially regulated in an animal subjected to pain and a
CC kit to perform the method, an array, a method for identifying an agent
CC that increases or decreases the expression of the polynucleotide sequence
CC that is differentially expressed in neuronal tissue of a first animal
CC subjected to pain, a method for identifying a compound which regulates
CC the expression of a polynucleotide sequence which is differentially
CC expressed in an animal subjected to pain, a method for identifying a
CC compound that regulates the activity of one or more of the
CC polynucleotides, a method for producing a pharmaceutical composition, a
CC method for identifying a compound or small molecule that regulates the
CC activity in an animal of one or more of the polypeptides given in the
CC pain and a pharmaceutical composition comprising the one or more
CC polypeptides or their antibodies. The polynucleotide or the compound that
CC modulates its activity is useful for preparing a medicament for treating
CC pain (e.g. spinal segmental nerve injury (Chung), chronic constriction
CC injury (CCI) and spared nerve injury (SNI)) in an animal (e.g. gene
CC therapy). The sequence presented is a human protein (shown in Table 2 of
CC the specification) which is differentially expressed during pain. Note:
CC The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic form directly from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences.
XX

XX Sequence 442 AA;
SQ

Query Match 98.6%; Score 2166; DB 7; Length 442;
Best Local Similarity 98.6%; Pred. No. 4.8e-149;
Matches 417; Conservative 2; Mismatches 4; Indels 0; Gaps 0;

QY 1 AAPGRLRLRLRLRLRLSAAALIPGTGQNLFTKDVTVIEGEVATISCVNKSDDSVIQLLN 60
DB 19 AAPGRLRLRLRLRLSAAALIPGTGQNLFTKDVTVIEGEVATISCVNKSDDSVIQLLN 78
QY 61 PNRQTIYFRDPRFKDPRFLLNFSSELKVSLSLTVNSISDEGRYFCOLYTDPPQESYTTI 120
DB 79 PNRQTIYFRDPRFKDPRFLLNFSSELKVSLSLTVNSISDEGRYFCOLYTDPPQESYTTI 138
QY 121 TVLPPRNLMIDIQDRTAVEGEIEVNCNTAMASKPATTIRFWKGNKELKSKSEVEEWSMD 180
DB 139 TVLPPRNLMIDIQDRTAVEGEIEVNCNTAMASKPATTIRFWKGNKELKSKSEVEEWSMD 198
QY 181 YTVTSQMLKVKHEDDGVPIQVEHPAVTGNLTQRYLEVQYKQVHIQMTYPLQGLTR 240
DB 199 YTVTSQMLKVKHEDDGVPIQVEHPAVTGNLTQRYLEVQYKQVHIQMTYPLQGLTR 258
QY 241 EGDALFELTCEAIGKQPQVMTWVRVDDMPQHAVLSGPNLFINNLTNDGTGRCEASNI 300
DB 259 EGDALFELTCEAIGKQPQVMTWVRVDDMPQHAVLSGPNLFINNLTNDGTGRCEASNI 318
QY 301 VGKASDYMLYVYDPPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 360
DB 319 VGKASDYMLYVYDPPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 378
QY 361 GVAVVVVFMCLLIILGRYFARHKGTYFTHEAKGADDAADADTAIINAEQGNNSSEKK 420
DB 379 GVAVVVVFMCLLIILGRYFARHKGTYFTHEAKGADDAADADTAIINAEQGNNSSEKK 438
QY 421 EYF 423
DB 439 EYF 441

RESULT. 14
AA17830

AA17830 standard; protein; 440 AA.
AA17830;
12-AUG-1999 (first entry)
Human PRO355 protein sequence.
Human; PRO protein; tumour necrosis factor family; TNF; cytokine;
secreted protein; transmembrane protein; inflammation disorder.
Homo sapiens.
WO9928462-A2.
10-JUN-1999.
01-DEC-1998; 98WO-US025108.
03-DEC-1997; 97US-0067411P.
11-DEC-1997; 97US-0069278P.
11-DEC-1997; 97US-0069334P.
12-DEC-1997; 97US-0069335P.
12-DEC-1997; 97US-0069425P.
16-DEC-1997; 97US-0069694P.
16-DEC-1997; 97US-0069696P.
16-DEC-1997; 97US-0069702P.
17-DEC-1997; 97US-0069870P.
17-DEC-1997; 97US-0069873P.
18-DEC-1997; 97US-0068017P.
05-JAN-1998; 98US-0070440P.
09-FEB-1998; 98US-0074086P.
09-FEB-1998; 98US-0074092P.
25-FEB-1998; 98US-0075945P.
(GETH) GENENTECH INC.
Wood WI, Goddard A, Gurney AL, Yuan J, Baker KP, Chen J;
WPI; 1999-371118/31.
N-PSDB; AAX80055.
Nucleic acids encoding PRO secreted and transmembrane proteins.
Claim 12; Fig 27; 123pp; English.
The present invention describes nucleic acids encoding PRO secreted and
transmembrane proteins used therapeutically. The PRO proteins have
cytostatic, anti-inflammatory, anti-proliferative and immunosuppressive
activity. The proteins and polynucleotides can be used in therapy,
identification of homologues, raising antibodies and design of probes and
primers. They can be used in a range of diseases related to proteins that
they have homology with, e.g. a PRO protein having homology to complement
proteins may be used in inflammatory responses
Sequence 440 AA;
Query Match 97.8%; Score 2149; DB 2; Length 440;
Best Local Similarity 98.3%; Pred. No. 8.2e-148;
Matches 416; Conservative 1; Mismatches 4; Indels 2; Gaps 1;

QY 1 AAPGRLRLRLRLRLSAAALIPGTGQNLFTKDVTVIEGEVATISCVNKSDDSVIQLLN 60
DB 19 AAPGRLRLRLRLRLSAAALIPGTGQNLFTKDVTVIEGEVATISCVNKSDDSVIQLLN 76
QY 61 PNRQTIYFRDPRFKDPRFLLNFSSELKVSLSLTVNSISDEGRYFCOLYTDPPQESYTTI 120
DB 77 PNRQTIYFRDPRFKDPRFLLNFSSELKVSLSLTVNSISDEGRYFCOLYTDPPQESYTTI 136
QY 121 TVLPPRNLMIDIQDRTAVEGEIEVNCNTAMASKPATTIRFWKGNKELKSKSEVEEWSMD 180
DB 137 TVLPPRNLMIDIQDRTAVEGEIEVNCNTAMASKPATTIRFWKGNKELKSKSEVEEWSMD 196

Db 377 GWAVVVFAMCLLLIILGRYFARHKGTYFTHEAKGADDAADADTAIINAEQQNNSEKK 436

Qy 421 EYF 423

Db 437 EYF 439

Search completed: June 28, 2005, 09:50:07
Job time : 114.452 secs

THIS PAGE INTENTIONALLY LEFT BLANK

GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.

OM protein - protein search, using sw model

Run on: June 28, 2005, 09:53:58 ; Search time 108.073 Seconds

(without alignments)
1505.131 Million cell updates/sec

Title: US-10-622-237-4

Perfect score: 2197

Sequence: 1 AAPGRLRLRLLLLLLSAAL.....TAINAEGGQNNSEKKEYF 423

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1717557 seqs, 384547976 residues

Total number of hits satisfying chosen parameters: 1717557

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA:*

- 1: /cgn2_6/ptodata/2/pubpaa/US07_PUBCOMB.pep.*
- 2: /cgn2_6/ptodata/2/pubpaa/PCT_NEW_PUB.pep.*
- 3: /cgn2_6/ptodata/2/pubpaa/US06_NEW_PUB.pep.*
- 4: /cgn2_6/ptodata/2/pubpaa/US06_PUBCOMB.pep.*
- 5: /cgn2_6/ptodata/2/pubpaa/US07_NEW_PUB.pep.*
- 6: /cgn2_6/ptodata/2/pubpaa/PCTUS_PUBCOMB.pep.*
- 7: /cgn2_6/ptodata/2/pubpaa/US08_NEW_PUB.pep.*
- 8: /cgn2_6/ptodata/2/pubpaa/US08_PUBCOMB.pep.*
- 9: /cgn2_6/ptodata/2/pubpaa/US09A_PUBCOMB.pep.*
- 10: /cgn2_6/ptodata/2/pubpaa/US09B_PUBCOMB.pep.*
- 11: /cgn2_6/ptodata/2/pubpaa/US09C_PUBCOMB.pep.*
- 12: /cgn2_6/ptodata/2/pubpaa/US09_NEW_PUB.pep.*
- 13: /cgn2_6/ptodata/2/pubpaa/US10A_PUBCOMB.pep.*
- 14: /cgn2_6/ptodata/2/pubpaa/US10B_PUBCOMB.pep.*
- 15: /cgn2_6/ptodata/2/pubpaa/US10C_PUBCOMB.pep.*
- 16: /cgn2_6/ptodata/2/pubpaa/US10D_PUBCOMB.pep.*
- 17: /cgn2_6/ptodata/2/pubpaa/US10E_PUBCOMB.pep.*
- 18: /cgn2_6/ptodata/2/pubpaa/US10F_PUBCOMB.pep.*
- 19: /cgn2_6/ptodata/2/pubpaa/US11A_PUBCOMB.pep.*
- 20: /cgn2_6/ptodata/2/pubpaa/US11_NEW_PUB.pep.*
- 21: /cgn2_6/ptodata/2/pubpaa/US60_NEW_PUB.pep.*
- 22: /cgn2_6/ptodata/2/pubpaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | ID | Description |
|------------|--------|-------------|--------|----|--------------------|
| 1 | 2197 | 100.0 | 423 | 9 | US-09-778-510-22 |
| 2 | 2197 | 100.0 | 423 | 9 | US-09-778-187B-4 |
| 3 | 2197 | 100.0 | 423 | 14 | US-10-302-041-22 |
| 4 | 2197 | 100.0 | 423 | 16 | US-10-622-237-4 |
| 5 | 2197 | 100.0 | 423 | 17 | US-10-898-408-4 |
| 6 | 2197 | 100.0 | 445 | 15 | US-10-015-115-112 |
| 7 | 2176.5 | 99.1 | 494 | 15 | US-10-015-115-113 |
| 8 | 2169 | 98.7 | 442 | 9 | US-09-778-510-20 |
| 9 | 2169 | 98.7 | 442 | 9 | US-09-778-187B-2 |
| 10 | 2169 | 98.7 | 442 | 10 | US-09-984-130-136 |
| 11 | 2169 | 98.7 | 442 | 10 | US-09-836-353A-136 |

| | | | | | | |
|----|------|------|-----|----|-------------------|-------------------|
| 12 | 2169 | 98.7 | 442 | 14 | US-10-302-041-20 | Sequence 20, Appl |
| 13 | 2169 | 98.7 | 442 | 14 | US-10-403-107-1 | Sequence 1, Appl |
| 14 | 2169 | 98.7 | 442 | 15 | US-10-015-115-111 | Sequence 111, App |
| 15 | 2169 | 98.7 | 442 | 15 | US-10-363-616-262 | Sequence 262, App |
| 16 | 2169 | 98.7 | 442 | 16 | US-10-622-237-2 | Sequence 2, Appl |
| 17 | 2169 | 98.7 | 442 | 17 | US-10-898-408-2 | Sequence 2, Appl |
| 18 | 2166 | 98.6 | 442 | 15 | US-10-015-115-110 | Sequence 110, App |
| 19 | 2149 | 97.8 | 440 | 9 | US-09-866-028-61 | Sequence 61, Appl |
| 20 | 2149 | 97.8 | 440 | 9 | US-09-944-449-61 | Sequence 61, Appl |
| 21 | 2149 | 97.8 | 440 | 9 | US-09-944-457-61 | Sequence 61, Appl |
| 22 | 2149 | 97.8 | 440 | 9 | US-09-944-862-61 | Sequence 61, Appl |
| 23 | 2149 | 97.8 | 440 | 9 | US-09-945-587-61 | Sequence 61, Appl |
| 24 | 2149 | 97.8 | 440 | 9 | US-09-945-015-61 | Sequence 61, Appl |
| 25 | 2149 | 97.8 | 440 | 9 | US-09-944-396-61 | Sequence 61, Appl |
| 26 | 2149 | 97.8 | 440 | 9 | US-09-944-432-61 | Sequence 61, Appl |
| 27 | 2149 | 97.8 | 440 | 9 | US-09-943-762-61 | Sequence 61, Appl |
| 28 | 2149 | 97.8 | 440 | 9 | US-09-944-654-61 | Sequence 61, Appl |
| 29 | 2149 | 97.8 | 440 | 9 | US-09-943-851A-61 | Sequence 61, Appl |
| 30 | 2149 | 97.8 | 440 | 9 | US-09-944-413-61 | Sequence 61, Appl |
| 31 | 2149 | 97.8 | 440 | 9 | US-09-944-403-61 | Sequence 61, Appl |
| 32 | 2149 | 97.8 | 440 | 9 | US-09-944-896-61 | Sequence 61, Appl |
| 33 | 2149 | 97.8 | 440 | 9 | US-09-944-944-61 | Sequence 61, Appl |
| 34 | 2149 | 97.8 | 440 | 9 | US-09-944-929-61 | Sequence 61, Appl |
| 35 | 2149 | 97.8 | 440 | 9 | US-09-944-907-61 | Sequence 61, Appl |
| 36 | 2149 | 97.8 | 440 | 10 | US-09-944-884-61 | Sequence 61, Appl |
| 37 | 2149 | 97.8 | 440 | 10 | US-09-944-852-61 | Sequence 61, Appl |
| 38 | 2149 | 97.8 | 440 | 10 | US-09-943-780-61 | Sequence 61, Appl |
| 39 | 2149 | 97.8 | 440 | 10 | US-09-945-584-61 | Sequence 61, Appl |
| 40 | 2149 | 97.8 | 440 | 11 | US-09-943-664-61 | Sequence 61, Appl |
| 41 | 2149 | 97.8 | 440 | 13 | US-10-052-586-34 | Sequence 34, Appl |
| 42 | 2149 | 97.8 | 440 | 14 | US-10-174-590-34 | Sequence 34, Appl |
| 43 | 2149 | 97.8 | 440 | 14 | US-10-176-758-34 | Sequence 34, Appl |
| 44 | 2149 | 97.8 | 440 | 14 | US-10-175-737-34 | Sequence 34, Appl |
| 45 | 2149 | 97.8 | 440 | 14 | US-10-174-581-34 | Sequence 34, Appl |

ALIGNMENTS

RESULT 1

US-09-778-510-22
; Sequence 22, Application US/09778510
; Patent No. US20020164686A1
; GENERAL INFORMATION:
; APPLICANT: Baum, Peter
; TITLE OF INVENTION: Molecules Designated B7L1
; FILE REFERENCE: 2844-US
; CURRENT APPLICATION NUMBER: US/09/778,510
; CURRENT FILING DATE: 2001-02-07
; PRIOR APPLICATION NUMBER: PCT/US99/17906
; PRIOR FILING DATE: 1999-08-05
; PRIOR APPLICATION NUMBER: 60/095,663
; PRIOR FILING DATE: 1998-08-07
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 22
; LENGTH: 423
; TYPE: PRT
; ORGANISM: Mus musculus
US-09-778-510-22

Query Match 100.0%; Score 2197; DB 9; Length 423;
Best Local Similarity 100.0%; Pred. No. 1.2e-153;
Matches 423; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

| | | | |
|----|----|---|-----|
| Qy | 1 | AAPGRLRLRLLLLLLSAALIPGTGQNLFTKDVTVIEGEVATISCVNKSDDSVIQLLN | 60 |
| Db | 1 | AAPGRLRLRLLLLLLSAALIPGTGQNLFTKDVTVIEGEVATISCVNKSDDSVIQLLN | 60 |
| Qy | 61 | PNRQTIYFRDRLPKDSRFLNPFSSSELKSVLTNVSISDEGRYFCQLYDPPQESYTTI | 120 |
| Db | 61 | PNRQTIYFRDRLPKDSRFLNPFSSSELKSVLTNVSISDEGRYFCQLYDPPQESYTTI | 120 |

QY 121 TVLVPPRLMIDTQKDTAVGEIEVNVCTAMASKPATTIRWFKGNKELKSKSEVEWSDM 180
DB 121 TVLVPPRLMIDTQKDTAVGEIEVNVCTAMASKPATTIRWFKGNKELKSKSEVEWSDM 180
QY 181 YTVTSQMLKVKHKEDDGPVICOVEHPAVTGNLTQRYLEVQYKPOVHIQMTYPLOGLTR 240
DB 181 YTVTSQMLKVKHKEDDGPVICOVEHPAVTGNLTQRYLEVQYKPOVHIQMTYPLOGLTR 240
QY 241 EGDAFELTCEAIGKQPQPMVTVWRVDDMPQHAVLSGPNLFINNKNKTNGTYRCEASNI 300
DB 241 EGDAFELTCEAIGKQPQPMVTVWRVDDMPQHAVLSGPNLFINNKNKTNGTYRCEASNI 300
QY 301 VGKASDMLYVYDPPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 360
DB 301 VGKASDMLYVYDPPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 360
QY 361 GVVAVVVFAMCLLIILGRYFARHKGTFTHEAKGADDAADADTAIINAEAGGQNNSEKK 420
DB 361 GVVAVVVFAMCLLIILGRYFARHKGTFTHEAKGADDAADADTAIINAEAGGQNNSEKK 420
QY 421 EYF 423
DB 421 EYF 423
RESULT 2
US-09-778-187B-4
; Sequence 4, Application US/09778187B
; Patent No. US20020168712A1
; GENERAL INFORMATION:
; APPLICANT: Baum, Peter R.
; APPLICANT: Fanslow III, William C
; TITLE OF INVENTION: MOLECULES DESIGNATED LDCAM
; FILE REFERENCE: 2873-US
; CURRENT APPLICATION NUMBER: US/09/778,187B
; CURRENT FILING DATE: 2001-02-06
; PRIOR APPLICATION NUMBER: PCT/US99/17905
; PRIOR FILING DATE: 1999-08-05
; PRIOR APPLICATION NUMBER: US 60/095,672
; PRIOR FILING DATE: 1998-08-07
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 4
; LENGTH: 423
; TYPE: PRT
; ORGANISM: mus musculus
US-09-778-187B-4

Query Match 100.0%; Score 2197; DB 9; Length 423;
Best Local Similarity 100.0%; Pred. No. 1.2e-153;
Matches 423; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 AAPGLRLRLLLLLLSAAALIPGQGNLFTKDVTVIEGEVATISQVKNKSDSDSVIQLLN 60
DB 1 AAPGLRLRLLLLLLSAAALIPGQGNLFTKDVTVIEGEVATISQVKNKSDSDSVIQLLN 60
QY 61 PNQTIYFRDRLPKDSRFOLLNFSSELKSVLTNVSISDEGRYFCQLYTDPQESYTTI 120
DB 61 PNQTIYFRDRLPKDSRFOLLNFSSELKSVLTNVSISDEGRYFCQLYTDPQESYTTI 120
QY 121 TVLVPPRLMIDTQKDTAVGEIEVNVCTAMASKPATTIRWFKGNKELKSKSEVEWSDM 180
DB 121 TVLVPPRLMIDTQKDTAVGEIEVNVCTAMASKPATTIRWFKGNKELKSKSEVEWSDM 180
QY 181 YTVTSQMLKVKHKEDDGPVICOVEHPAVTGNLTQRYLEVQYKPOVHIQMTYPLOGLTR 240
DB 181 YTVTSQMLKVKHKEDDGPVICOVEHPAVTGNLTQRYLEVQYKPOVHIQMTYPLOGLTR 240
QY 241 EGDAFELTCEAIGKQPQPMVTVWRVDDMPQHAVLSGPNLFINNKNKTNGTYRCEASNI 300
DB 241 EGDAFELTCEAIGKQPQPMVTVWRVDDMPQHAVLSGPNLFINNKNKTNGTYRCEASNI 300
QY 301 VGKASDMLYVYDPPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 360
DB 301 VGKASDMLYVYDPPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 360
QY 361 GVVAVVVFAMCLLIILGRYFARHKGTFTHEAKGADDAADADTAIINAEAGGQNNSEKK 420
DB 361 GVVAVVVFAMCLLIILGRYFARHKGTFTHEAKGADDAADADTAIINAEAGGQNNSEKK 420
QY 421 EYF 423
DB 421 EYF 423

DB 301 VGKASDMLYVYDPPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 360
QY 361 GVVAVVVFAMCLLIILGRYFARHKGTFTHEAKGADDAADADTAIINAEAGGQNNSEKK 420
DB 361 GVVAVVVFAMCLLIILGRYFARHKGTFTHEAKGADDAADADTAIINAEAGGQNNSEKK 420
QY 421 EYF 423
DB 421 EYF 423
RESULT 3
US-10-302-041-22
; Sequence 22, Application US/10302041
; Publication No. US20030144478A1
; GENERAL INFORMATION:
; APPLICANT: Baum, Peter
; TITLE OF INVENTION: Molecules Designated B7L1
; FILE REFERENCE: 2844-US
; CURRENT APPLICATION NUMBER: US/10/302,041
; CURRENT FILING DATE: 2002-11-21
; PRIOR APPLICATION NUMBER: US/09/778,510
; PRIOR FILING DATE: 2001-02-07
; PRIOR APPLICATION NUMBER: PCT/US99/17906
; PRIOR FILING DATE: 1999-08-05
; PRIOR APPLICATION NUMBER: 60/095,663
; PRIOR FILING DATE: 1998-08-07
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 22
; LENGTH: 423
; TYPE: PRT
; ORGANISM: Mus musculus
US-10-302-041-22

Query Match 100.0%; Score 2197; DB 14; Length 423;
Best Local Similarity 100.0%; Pred. No. 1.2e-153;
Matches 423; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 AAPGLRLRLLLLLLSAAALIPGQGNLFTKDVTVIEGEVATISQVKNKSDSDSVIQLLN 60
DB 1 AAPGLRLRLLLLLLSAAALIPGQGNLFTKDVTVIEGEVATISQVKNKSDSDSVIQLLN 60
QY 61 PNQTIYFRDRLPKDSRFOLLNFSSELKSVLTNVSISDEGRYFCQLYTDPQESYTTI 120
DB 61 PNQTIYFRDRLPKDSRFOLLNFSSELKSVLTNVSISDEGRYFCQLYTDPQESYTTI 120
QY 121 TVLVPPRLMIDTQKDTAVGEIEVNVCTAMASKPATTIRWFKGNKELKSKSEVEWSDM 180
DB 121 TVLVPPRLMIDTQKDTAVGEIEVNVCTAMASKPATTIRWFKGNKELKSKSEVEWSDM 180
QY 181 YTVTSQMLKVKHKEDDGPVICOVEHPAVTGNLTQRYLEVQYKPOVHIQMTYPLOGLTR 240
DB 181 YTVTSQMLKVKHKEDDGPVICOVEHPAVTGNLTQRYLEVQYKPOVHIQMTYPLOGLTR 240
QY 241 EGDAFELTCEAIGKQPQPMVTVWRVDDMPQHAVLSGPNLFINNKNKTNGTYRCEASNI 300
DB 241 EGDAFELTCEAIGKQPQPMVTVWRVDDMPQHAVLSGPNLFINNKNKTNGTYRCEASNI 300
QY 301 VGKASDMLYVYDPPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 360
DB 301 VGKASDMLYVYDPPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 360
QY 361 GVVAVVVFAMCLLIILGRYFARHKGTFTHEAKGADDAADADTAIINAEAGGQNNSEKK 420
DB 361 GVVAVVVFAMCLLIILGRYFARHKGTFTHEAKGADDAADADTAIINAEAGGQNNSEKK 420
QY 421 EYF 423
DB 421 EYF 423

```
RESULT 4
US-10-622-237-4
; Sequence 4, Application US/10622237
; Publication No. US20040204568A1
; GENERAL INFORMATION:
; APPLICANT: Baum, Peter R.
; APPLICANT: Fanslow III, William C
; TITLE OF INVENTION: MOLECULES DESIGNATED LDCAM
; FILE REFERENCE: 2873-US
; CURRENT APPLICATION NUMBER: US/10/622,237
; PRIOR FILING DATE: 2003-07-17
; PRIOR APPLICATION NUMBER: US/09/778,187B
; PRIOR FILING DATE: 2001-02-06
; PRIOR APPLICATION NUMBER: PCT/US99/17905
; PRIOR FILING DATE: 1999-08-05
; PRIOR APPLICATION NUMBER: US 60/095,672
; PRIOR FILING DATE: 1998-08-07
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: Patent in version 3.1
; SEQ ID NO 4
; LENGTH: 423
; TYPE: PRT
; ORGANISM: mus musculus
US-10-622-237-4

Query Match      100.0%; Score 2197; DB 16; Length 423;
Best Local Similarity 100.0%; Pred. No. 1.2e-153;
Matches 423; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AAPPGLRLRLLLLLSAAALIPGDCQNLFTKDVTVIEGEVATISQVNVKSDSDSVIQLLN 60
Db 1 AAPPGLRLRLLLLLSAAALIPGDCQNLFTKDVTVIEGEVATISQVNVKSDSDSVIQLLN 60
QY 61 PNRQTIYFRDFRPLKDSRFQLLNFSSSELKVSILTNVSIISDEGRYFCOLYTDPPQESYTTI 120
Db 61 PNRQTIYFRDFRPLKDSRFQLLNFSSSELKVSILTNVSIISDEGRYFCOLYTDPPQESYTTI 120
QY 121 TVLVPPRNLMIDIQKOTAVEGEEIEVNCCTAMASKPATIRWFKGNKELKGKSEVEWSDM 180
Db 121 TVLVPPRNLMIDIQKOTAVEGEEIEVNCCTAMASKPATIRWFKGNKELKGKSEVEWSDM 180
QY 181 YTVTSOLMLKVKHEDDGVPIQVEHPAVTGNLQRYLEVQYKPVHIOQMTYPLQGLTR 240
Db 181 YTVTSOLMLKVKHEDDGVPIQVEHPAVTGNLQRYLEVQYKPVHIOQMTYPLQGLTR 240
QY 241 EGDFAFELTCEAIGKQPQVMVTVVRVDDMPQHAVLSGPNLFINNKNKTNGTYRCEASNI 300
Db 241 EGDFAFELTCEAIGKQPQVMVTVVRVDDMPQHAVLSGPNLFINNKNKTNGTYRCEASNI 300
QY 301 VGKAHSDYMLYVYDPPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTITDTSRAGEEGTIGAVDHAVIG 360
Db 301 VGKAHSDYMLYVYDPPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTITDTSRAGEEGTIGAVDHAVIG 360
QY 361 GVAVVVFVAMLCILIIILGRYFARHKGTYFTHAEKAGDADAADATAIINAEAGGQNNSEKK 420
Db 361 GVAVVVFVAMLCILIIILGRYFARHKGTYFTHAEKAGDADAADATAIINAEAGGQNNSEKK 420
QY 421 EYF 423
Db 421 EYF 423

RESULT 6
US-10-015-115-112
; Sequence 112, Application US/10015115
; Publication No. US20030207800A1
; GENERAL INFORMATION:
; APPLICANT: Malyankar, Uriel M
; APPLICANT: Shenoy, Suresh G
; APPLICANT: Spytek, Kimberly A
; APPLICANT: Zerhusen, Bryan D
; APPLICANT: Patturajan, Meera
; APPLICANT: Guo, Xiaojia
; APPLICANT: Kekuda, Ramesha
; APPLICANT: Gangolli, Esha A
; APPLICANT: Shimkete, Richard A
; APPLICANT: Taupier, Raymond J
; APPLICANT: Li, Li
; APPLICANT: Padigaru, Muralidhara
; TITLE OF INVENTION: Proteins, Polynucleotides Encoding Them and Methods of
; FILE REFERENCE: 21402-211
; CURRENT APPLICATION NUMBER: US/10/015,115
; PRIOR FILING DATE: 2002-09-23
; PRIOR APPLICATION NUMBER: 60/248,153
; PRIOR FILING DATE: 2000-11-13
; PRIOR APPLICATION NUMBER: 60/249,598
; PRIOR FILING DATE: 2000-11-17
```

| | | | | | | | | | |
|--|-----|---------------------|-------------------------|------------------------|-----|--|--|--|--|
| ; APPLICANT: Padigaru, Muralidhara | | | | | | | | | |
| ; TITLE OF INVENTION: Proteins, Polynucleotides Encoding Them and Methods of | | | | | | | | | |
| ; FILE REFERENCE: 21402-211 | | | | | | | | | |
| ; CURRENT APPLICATION NUMBER: US/10/015,115 | | | | | | | | | |
| ; CURRENT FILING DATE: 2002-09-23 | | | | | | | | | |
| ; PRIOR APPLICATION NUMBER: 60/248,153 | | | | | | | | | |
| ; PRIOR FILING DATE: 2000-11-13 | | | | | | | | | |
| ; PRIOR APPLICATION NUMBER: 60/249,598 | | | | | | | | | |
| ; PRIOR FILING DATE: 2000-11-17 | | | | | | | | | |
| ; PRIOR APPLICATION NUMBER: 60/264,240 | | | | | | | | | |
| ; PRIOR FILING DATE: 2001-01-26 | | | | | | | | | |
| ; PRIOR APPLICATION NUMBER: 60/266,127 | | | | | | | | | |
| ; PRIOR FILING DATE: 2001-02-02 | | | | | | | | | |
| ; PRIOR APPLICATION NUMBER: 60/269,562 | | | | | | | | | |
| ; PRIOR FILING DATE: 2001-02-16 | | | | | | | | | |
| ; PRIOR APPLICATION NUMBER: 60/304,348 | | | | | | | | | |
| ; PRIOR FILING DATE: 2001-07-10 | | | | | | | | | |
| ; PRIOR APPLICATION NUMBER: 60/309,261 | | | | | | | | | |
| ; PRIOR FILING DATE: 2001-07-31 | | | | | | | | | |
| ; PRIOR APPLICATION NUMBER: 60/313,283 | | | | | | | | | |
| ; PRIOR FILING DATE: 2001-08-17 | | | | | | | | | |
| ; NUMBER OF SEQ ID NOS: 205 | | | | | | | | | |
| ; SOFTWARE: PatentIn Ver. 2.1 | | | | | | | | | |
| ; SEQ ID NO 113 | | | | | | | | | |
| ; LENGTH: 494 | | | | | | | | | |
| ; TYPE: PRT | | | | | | | | | |
| ; ORGANISM: Mus musculus | | | | | | | | | |
| US-10-015-115-113 | | | | | | | | | |
| Query Match 99.1%; Score 2176.5; DB 15; Length 494; | | | | | | | | | |
| Best Local Similarity 97.2%; Pred. No. 4.9e-152; | | | | | | | | | |
| Matches 422; Conservative 1; Mismatches 0; Indels 11; Gaps 1; | | | | | | | | | |
| Qy | 1 | AAPGLRLRLLLLLLSAAAL | PTGQGNLFTKDVTVIEGEVATIS | CCVNKSDDSVIQLLN | 60 | | | | |
| Db | 60 | AAPGLRLRLLLLLLSAAAL | PTGQGNLFTKDVTVIEGEVATIS | CCVNKSDDSVIQLLN | 119 | | | | |
| Qy | 61 | PNRQTIYFRDRLKDSRFQL | NFSSSELKVSLTNVSI | SDGRYFCOLYTDPPQESYTTI | 120 | | | | |
| Db | 120 | PNRQTIYFRDRLKDSRFQL | NFSSSELKVSLTNVSI | SDGRYFCOLYTDPPQESYTTI | 179 | | | | |
| Qy | 121 | TVLVPPRNLMIDIQKDTA | VEGEIEVNCCTAMASKPATTIR | WFKNKELKGKSEVEEWS | 180 | | | | |
| Db | 180 | TVLVPPRNLMIDIQKDTA | VEGEIEVNCCTAMASKPATTIR | WFKNKELKGKSEVEEWS | 239 | | | | |
| Qy | 181 | YTVTSQMLKVKHKEDDGP | VPVICOVEHPAVTGNLQRYL | EYQKPVHQMITYPLOGLTR | 240 | | | | |
| Db | 240 | YTVTSQMLKVKHKEDDGP | VPVICOVEHPAVTGNLQRYL | EYQKPVHQMITYPLOGLTR | 299 | | | | |
| Qy | 241 | EGDAFELTCEAIGKQPQV | MVTWVRVDDDEMPQHAVLSG | PNLFNNLNKTDNGTYRCEASNI | 300 | | | | |
| Db | 300 | EGDAFELTCEAIGKQPQV | MVTWVRVDDDEMPQHAVLSG | PNLFNNLNKTDNGTYRCEASNI | 359 | | | | |
| Qy | 301 | VGKAHSDYMLXYVDPPTT | IPPPPTTTTTTTTTTTTTTT | TTTTTTTTTTTTTTTTTTTT | 349 | | | | |
| Db | 360 | VGKAHSDYMLXYVDPPTT | IPPPPTTTTTTTTTTTTTTT | TTTTTTTTTTTTTTTTTTTT | 419 | | | | |
| RESULT 8 | | | | | | | | | |
| US-09-778-510-20 | | | | | | | | | |
| ; Sequence 20, Application US/09778510 | | | | | | | | | |
| ; Patent No. US20020164686A1 | | | | | | | | | |
| ; GENERAL INFORMATION: | | | | | | | | | |
| ; APPLICANT: Baum, Peter | | | | | | | | | |

```
; TITLE OF INVENTION: Molecules Designated B7L1
; FILE REFERENCE: 2844-US
; CURRENT APPLICATION NUMBER: US/09/778,510
; CURRENT FILING DATE: 2001-02-07
; PRIOR APPLICATION NUMBER: PCT/US99/17906
; PRIOR FILING DATE: 1999-08-05
; PRIOR APPLICATION NUMBER: 60/095,663
; PRIOR FILING DATE: 1998-08-07
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 20
; LENGTH: 442
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-778-510-20

Query Match          98.7%; Score 2169; DB 9; Length 442;
Best Local Similarity 98.8%; Pred. No. 1.5e-151;
Matches 418; Conservative 1; Mismatches 4; Indels 0; Gaps 0;

QY 1 AAPGLRLRLRLRLRLRLSAAALIPITGQGNLFKDVTVIEGEVATISCVNKSDDSVIQLLN 60
DB 19 AAPGLRLRLRLRLRLSAAALIPITGQGNLFKDVTVIEGEVATISCVNKSDDSVIQLLN 78
QY 61 PNRTIYFRDFRPLKDSRFOLLNFSSELKVSILTNVSIISDEGRYFCOLYTDPPQESYTTI 120
DB 79 PNRTIYFRDFRPLKDSRFOLLNFSSELKVSILTNVSIISDEGRYFCOLYTDPPQESYTTI 138
QY 121 TVLVPPRLNLMIDIOKTAVEGEEIEVNCTAMASKPATIRFWKGNKELKGKSEVEEWSDM 180
DB 139 TVLVPPRLNLMIDIOKTAVEGEEIEVNCTAMASKPATIRFWKGNKELKGKSEVEEWSDM 198
QY 181 YTVTSQMLMKVHKEDDGPVVICQVEHPAVTGNLTQRYLEYVQKPVQVHIQMTYPLQGLTR 240
DB 199 YTVTSQMLMKVHKEDDGPVVICQVEHPAVTGNLTQRYLEYVQKPVQVHIQMTYPLQGLTR 258
QY 241 EGDAFELTCEAIGKPOQPMVTVRVVDEMPQHAVLSGPNLFINNLKNTDNGTYRCEASNI 300
DB 259 EGDALELTCEAIGKPOQPMVTVRVVDEMPQHAVLSGPNLFINNLKNTDNGTYRCEASNI 318
QY 301 VGKASHDYMLYVYDPTTIPPPPTTTTTTTTTTTTTTTTTTTTTTTTTITDTSRAGEBGTIGAVDHAVIG 360
DB 319 VGKASHDYMLYVYDPTTIPPPPTTTTTTTTTTTTTTTTTTTTTTTTTITDTSRAGEBGTIGAVDHAVIG 378
QY 361 GVAVVVFVAMLCIIILGRYFARHKGTYFTHEAKGADDAADADTAIINAEAGQNNSEKK 420
DB 379 GVAVVVFVAMLCIIILGRYFARHKGTYFTHEAKGADDAADADTAIINAEAGQNNSEKK 438
QY 421 EYF 423
DB 439 EYF 441

RESULT 9
US-09-778-187B-2
; Sequence 2, Application US/09778187B
; Patent No. US20020168712A1
; GENERAL INFORMATION:
; APPLICANT: Baum, Peter R.
; TITLE OF INVENTION: MOLECULES DESIGNATED LDCAM
; FILE REFERENCE: 2873-US
; CURRENT APPLICATION NUMBER: US/09/778,187B
; CURRENT FILING DATE: 2001-02-06
; PRIOR APPLICATION NUMBER: PCT/US99/17905
; PRIOR FILING DATE: 1999-08-05
; PRIOR APPLICATION NUMBER: US 60/095,672
; PRIOR FILING DATE: 1998-08-07
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 2
; LENGTH: 442
; TYPE: PRT

; ORGANISM: Homo sapiens
US-09-778-187B-2

Query Match          98.7%; Score 2169; DB 10; Length 442;
Best Local Similarity 98.8%; Pred. No. 1.5e-151;
Matches 418; Conservative 1; Mismatches 4; Indels 0; Gaps 0;

QY 1 AAPGLRLRLRLRLRLSAAALIPITGQGNLFKDVTVIEGEVATISCVNKSDDSVIQLLN 60
DB 19 AAPGLRLRLRLRLRLSAAALIPITGQGNLFKDVTVIEGEVATISCVNKSDDSVIQLLN 78
QY 61 PNRTIYFRDFRPLKDSRFOLLNFSSELKVSILTNVSIISDEGRYFCOLYTDPPQESYTTI 120
DB 79 PNRTIYFRDFRPLKDSRFOLLNFSSELKVSILTNVSIISDEGRYFCOLYTDPPQESYTTI 138
QY 121 TVLVPPRLNLMIDIOKTAVEGEEIEVNCTAMASKPATIRFWKGNKELKGKSEVEEWSDM 180
DB 139 TVLVPPRLNLMIDIOKTAVEGEEIEVNCTAMASKPATIRFWKGNKELKGKSEVEEWSDM 198
QY 181 YTVTSQMLMKVHKEDDGPVVICQVEHPAVTGNLTQRYLEYVQKPVQVHIQMTYPLQGLTR 240
DB 199 YTVTSQMLMKVHKEDDGPVVICQVEHPAVTGNLTQRYLEYVQKPVQVHIQMTYPLQGLTR 258
QY 241 EGDAFELTCEAIGKPOQPMVTVRVVDEMPQHAVLSGPNLFINNLKNTDNGTYRCEASNI 300
DB 259 EGDALELTCEAIGKPOQPMVTVRVVDEMPQHAVLSGPNLFINNLKNTDNGTYRCEASNI 318
QY 301 VGKASHDYMLYVYDPTTIPPPPTTTTTTTTTTTTTTTTTTTTTTTTTITDTSRAGEBGTIGAVDHAVIG 360
DB 319 VGKASHDYMLYVYDPTTIPPPPTTTTTTTTTTTTTTTTTTTTTTTTTITDTSRAGEBGTIGAVDHAVIG 378
QY 361 GVAVVVFVAMLCIIILGRYFARHKGTYFTHEAKGADDAADADTAIINAEAGQNNSEKK 420
DB 379 GVAVVVFVAMLCIIILGRYFARHKGTYFTHEAKGADDAADADTAIINAEAGQNNSEKK 438
QY 421 EYF 423
DB 439 EYF 441

RESULT 10
US-09-984-130-136
; Sequence 136, Application US/09984130
; Publication No. US20030055231A1
; GENERAL INFORMATION:
; APPLICANT: Ni et al.
; TITLE OF INVENTION: 12 Human Secreted Proteins
; FILE REFERENCE: PF489P2
; CURRENT APPLICATION NUMBER: US/09/984,130
; CURRENT FILING DATE: 2001-10-29
; PRIOR APPLICATION NUMBER: 60/243,792
; PRIOR FILING DATE: 2000-10-30
; PRIOR APPLICATION NUMBER: 09/836,353
; PRIOR FILING DATE: 2001-04-18
; PRIOR APPLICATION NUMBER: 60/198,407
; PRIOR FILING DATE: 2000-04-19
; PRIOR APPLICATION NUMBER: PCT/US99/25031
; PRIOR FILING DATE: 1999-10-27
; PRIOR APPLICATION NUMBER: 60/105,971
; PRIOR FILING DATE: 1998-10-28
; NUMBER OF SEQ ID NOS: 149
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 136
; LENGTH: 442
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-984-130-136

Query Match          98.7%; Score 2169; DB 10; Length 442;
Best Local Similarity 98.8%; Pred. No. 1.5e-151;
Matches 418; Conservative 1; Mismatches 4; Indels 0; Gaps 0;

QY 1 AAPGLRLRLRLRLRLSAAALIPITGQGNLFKDVTVIEGEVATISCVNKSDDSVIQLLN 60
DB 19 AAPGLRLRLRLRLRLSAAALIPITGQGNLFKDVTVIEGEVATISCVNKSDDSVIQLLN 78
QY 61 PNRTIYFRDFRPLKDSRFOLLNFSSELKVSILTNVSIISDEGRYFCOLYTDPPQESYTTI 120
DB 79 PNRTIYFRDFRPLKDSRFOLLNFSSELKVSILTNVSIISDEGRYFCOLYTDPPQESYTTI 138
QY 121 TVLVPPRLNLMIDIOKTAVEGEEIEVNCTAMASKPATIRFWKGNKELKGKSEVEEWSDM 180
DB 139 TVLVPPRLNLMIDIOKTAVEGEEIEVNCTAMASKPATIRFWKGNKELKGKSEVEEWSDM 198
QY 181 YTVTSQMLMKVHKEDDGPVVICQVEHPAVTGNLTQRYLEYVQKPVQVHIQMTYPLQGLTR 240
DB 199 YTVTSQMLMKVHKEDDGPVVICQVEHPAVTGNLTQRYLEYVQKPVQVHIQMTYPLQGLTR 258
QY 241 EGDAFELTCEAIGKPOQPMVTVRVVDEMPQHAVLSGPNLFINNLKNTDNGTYRCEASNI 300
DB 259 EGDALELTCEAIGKPOQPMVTVRVVDEMPQHAVLSGPNLFINNLKNTDNGTYRCEASNI 318
QY 301 VGKASHDYMLYVYDPTTIPPPPTTTTTTTTTTTTTTTTTTTTTTTTTITDTSRAGEBGTIGAVDHAVIG 360
DB 319 VGKASHDYMLYVYDPTTIPPPPTTTTTTTTTTTTTTTTTTTTTTTTTITDTSRAGEBGTIGAVDHAVIG 378
QY 361 GVAVVVFVAMLCIIILGRYFARHKGTYFTHEAKGADDAADADTAIINAEAGQNNSEKK 420
DB 379 GVAVVVFVAMLCIIILGRYFARHKGTYFTHEAKGADDAADADTAIINAEAGQNNSEKK 438
QY 421 EYF 423
DB 439 EYF 441
```

```
Db 19 AAPPGLRLRLLLLSAAALIPGDKGNLFTKDVTVIEGEVATISQVKNKSDSDSVIQLLN 78
Qy 61 PNRQTIYFRDPRPLKDSRFQLLNPFSSSELKSVLTNVSISDEGRYFCOLYTDPPQESYTTI 120
Db 79 PNRQTIYFRDPRPLKDSRFQLLNPFSSSELKSVLTNVSISDEGRYFCOLYTDPPQESYTTI 138
Qy 121 TVLVPPRLNMDIQKDTAVEGEEIEVNCTAMASKPATIRWFKNKELKSGKSEVEEWSDM 180
Db 139 TVLVPPRLNMDIQKDTAVEGEEIEVNCTAMASKPATIRWFKNKELKSGKSEVEEWSDM 198
Qy 181 YTVTSQMLMKVHKEDDGVPIQVHEPAVTGNLQRYLEVQYKQVHIQMTYPLQGLTR 240
Db 199 YTVTSQMLMKVHKEDDGVPIQVHEPAVTGNLQRYLEVQYKQVHIQMTYPLQGLTR 258
Qy 241 EGDAFELTCEAIGKPOQVMVTVVRVDDMPQHAVLSGPNLFINNKNKTONGTYRCEASNI 300
Db 259 EGDALELTCEAIGKPOQVMVTVVRVDDMPQHAVLSGPNLFINNKNKTONGTYRCEASNI 318
Qy 301 VGKAHSDYMLYVYDPPPTTIPPPPTTTTTTTTTTTTTTTTTTTTTITSDRAGEEGTIGAVDHAVIG 360
Db 319 VGKAHSDYMLYVYDPPPTTIPPPPTTTTTTTTTTTTTTTTTTTTTITSDRAGEEGTIGAVDHAVIG 378
Qy 361 GVVAVVVFAMLCILIIILGRYFARHKGTFTHEAKGADDAADADTAIINAEAGGQNNSEKK 420
Db 379 GVVAVVVFAMLCILIIILGRYFARHKGTFTHEAKGADDAADADTAIINAEAGGQNNSEKK 438
Qy 421 EYF 423
Db 439 EYF 441

RESULT 11
US-09-836-353A-136
; Sequence 136, Application US/09836353A
; Publication No. US20030129685A1
; GENERAL INFORMATION:
; APPLICANT: Ni et al.
; TITLE OF INVENTION: 12 Human Secreted Proteins
; FILE REFERENCE: PF489P1
; CURRENT APPLICATION NUMBER: US/09/836,353A
; PRIOR FILING DATE: 2001-04-18
; PRIOR APPLICATION NUMBER: 60/198,407
; PRIOR FILING DATE: 2000-04-19
; PRIOR APPLICATION NUMBER: PCT/US99/25031
; PRIOR FILING DATE: 1999-10-27
; PRIOR APPLICATION NUMBER: 60/105,971
; PRIOR FILING DATE: 1998-10-28
; NUMBER OF SEQ ID NOS: 147
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 136
; LENGTH: 442
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-836-353A-136
```

```
Query Match 98.7%; Score 2169; DB 10; Length 442;
Best Local Similarity 98.8%; Pred. No. 1.5e-151;
Matches 418; Conservative 1; Mismatches 4; Indels 0; Gaps 0;
```

```
Qy 1 AAPPGLRLRLLLLSAAALIPGDKGNLFTKDVTVIEGEVATISQVKNKSDSDSVIQLLN 60
Db 19 AAPPGLRLRLLLLSAAALIPGDKGNLFTKDVTVIEGEVATISQVKNKSDSDSVIQLLN 78
Qy 61 PNRQTIYFRDPRPLKDSRFQLLNPFSSSELKSVLTNVSISDEGRYFCOLYTDPPQESYTTI 120
Db 79 PNRQTIYFRDPRPLKDSRFQLLNPFSSSELKSVLTNVSISDEGRYFCOLYTDPPQESYTTI 138
Qy 121 TVLVPPRLNMDIQKDTAVEGEEIEVNCTAMASKPATIRWFKNKELKSGKSEVEEWSDM 180
Db 139 TVLVPPRLNMDIQKDTAVEGEEIEVNCTAMASKPATIRWFKNKELKSGKSEVEEWSDM 198
Qy 181 YTVTSQMLMKVHKEDDGVPIQVHEPAVTGNLQRYLEVQYKQVHIQMTYPLQGLTR 240
```

```
Db 199 YTVTSQMLMKVHKEDDGVPIQVHEPAVTGNLQRYLEVQYKQVHIQMTYPLQGLTR 258
Qy 241 EGDAFELTCEAIGKPOQVMVTVVRVDDMPQHAVLSGPNLFINNKNKTONGTYRCEASNI 300
Db 259 EGDALELTCEAIGKPOQVMVTVVRVDDMPQHAVLSGPNLFINNKNKTONGTYRCEASNI 318
Qy 301 VGKAHSDYMLYVYDPPPTTIPPPPTTTTTTTTTTTTTTTTTTTTTITSDRAGEEGTIGAVDHAVIG 360
Db 319 VGKAHSDYMLYVYDPPPTTIPPPPTTTTTTTTTTTTTTTTTTTTTITSDRAGEEGTIGAVDHAVIG 378
Qy 361 GVVAVVVFAMLCILIIILGRYFARHKGTFTHEAKGADDAADADTAIINAEAGGQNNSEKK 420
Db 379 GVVAVVVFAMLCILIIILGRYFARHKGTFTHEAKGADDAADADTAIINAEAGGQNNSEKK 438
Qy 421 EYF 423
Db 439 EYF 441

RESULT 12
US-10-302-041-20
; Sequence 20, Application US/10302041
; Publication No. US20030144478A1
; GENERAL INFORMATION:
; APPLICANT: Baum, Peter
; TITLE OF INVENTION: Molecules Designated B7L1
; FILE REFERENCE: 2844-US
; CURRENT APPLICATION NUMBER: US/10/302,041
; PRIOR FILING DATE: 2002-11-21
; PRIOR APPLICATION NUMBER: US/09/778,510
; PRIOR FILING DATE: 2001-02-07
; PRIOR APPLICATION NUMBER: PCT/US99/17906
; PRIOR FILING DATE: 1999-08-05
; PRIOR APPLICATION NUMBER: 60/095,663
; PRIOR FILING DATE: 1998-08-07
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 20
; LENGTH: 442
; TYPE: PRT
; ORGANISM: Homo sapien
US-10-302-041-20
```

```
Query Match 98.7%; Score 2169; DB 14; Length 442;
Best Local Similarity 98.8%; Pred. No. 1.5e-151;
Matches 418; Conservative 1; Mismatches 4; Indels 0; Gaps 0;
```

```
Qy 1 AAPPGLRLRLLLLSAAALIPGDKGNLFTKDVTVIEGEVATISQVKNKSDSDSVIQLLN 60
Db 19 AAPPGLRLRLLLLSAAALIPGDKGNLFTKDVTVIEGEVATISQVKNKSDSDSVIQLLN 78
Qy 61 PNRQTIYFRDPRPLKDSRFQLLNPFSSSELKSVLTNVSISDEGRYFCOLYTDPPQESYTTI 120
Db 79 PNRQTIYFRDPRPLKDSRFQLLNPFSSSELKSVLTNVSISDEGRYFCOLYTDPPQESYTTI 138
Qy 121 TVLVPPRLNMDIQKDTAVEGEEIEVNCTAMASKPATIRWFKNKELKSGKSEVEEWSDM 180
Db 139 TVLVPPRLNMDIQKDTAVEGEEIEVNCTAMASKPATIRWFKNKELKSGKSEVEEWSDM 198
Qy 181 YTVTSQMLMKVHKEDDGVPIQVHEPAVTGNLQRYLEVQYKQVHIQMTYPLQGLTR 240
Db 199 YTVTSQMLMKVHKEDDGVPIQVHEPAVTGNLQRYLEVQYKQVHIQMTYPLQGLTR 258
Qy 241 EGDAFELTCEAIGKPOQVMVTVVRVDDMPQHAVLSGPNLFINNKNKTONGTYRCEASNI 300
Db 259 EGDALELTCEAIGKPOQVMVTVVRVDDMPQHAVLSGPNLFINNKNKTONGTYRCEASNI 318
Qy 301 VGKAHSDYMLYVYDPPPTTIPPPPTTTTTTTTTTTTTTTTTTTTTITSDRAGEEGTIGAVDHAVIG 360
Db 319 VGKAHSDYMLYVYDPPPTTIPPPPTTTTTTTTTTTTTTTTTTTTTITSDRAGEEGTIGAVDHAVIG 378
Qy 361 GVVAVVVFAMLCILIIILGRYFARHKGTFTHEAKGADDAADADTAIINAEAGGQNNSEKK 420
```

Db 379 GVAVVVFAMLCIIILGRYFARHKGTYFTHKAGDADAADATTAIINAEQGNSEKK 438
Qy 421 EYF 423
Db 439 EYF 441

RESULT 13

US-10-403-107-1
; Sequence 1, Application US/10403107
; Publication No. US20030165974A1
; GENERAL INFORMATION:
; APPLICANT: THE JOHNS HOPKINS UNIVERSITY SCHOOL OF MEDICINE
; APPLICANT: REEVES, Roger
; APPLICANT: YOSHINORI, Muramaki
; TITLE OF INVENTION: DIAGNOSIS AND TREATMENT OF TUMOR-SUPPRESSOR ASSOCIATED DISORDERS
; FILE REFERENCE: JHU1770-1
; CURRENT APPLICATION NUMBER: US/10/403,107
; CURRENT FILING DATE: 2003-03-28
; PRIOR APPLICATION NUMBER: US/09/930,803
; PRIOR FILING DATE: 2001-08-15
; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 1
; LENGTH: 442
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-403-107-1

Query Match 98.7%; Score 2169; DB 14; Length 442;
Best Local Similarity 98.8%; Pred. No. 1.5e-151;
Matches 418; Conservative 1; Mismatches 4; Indels 0; Gaps 0;

Qy 1 AAPGLRLRLLLLSAAALIPGQNLFTKQVTVIEGEVATISCOVNSKSDSDSVIQLLN 60
Db 19 AAPGLRLRLLLLSAAALIPGQNLFTKQVTVIEGEVATISCOVNSKSDSDSVIQLLN 78
Qy 61 PNQTIYFRDPRPLKDSRFQLLNFSSELKVSLLTNVSIISDEGRYFCOLYTDPPQESYTTI 120
Db 79 PNQTIYFRDPRPLKDSRFQLLNFSSELKVSLLTNVSIISDEGRYFCOLYTDPPQESYTTI 138
Qy 121 TVLVPPNRLMIDIKQTAVEGEIEVNCAMASKPATIRFWKGNKELKKGKSEVEESDM 180
Db 139 TVLVPPNRLMIDIKQTAVEGEIEVNCAMASKPATIRFWKGNKELKKGKSEVEESDM 198
Qy 181 YTVTSQMLKVHKEDDGPVICOVEHPAVTGNLQRYLEVQYKQVHIQMTYPLQGLTR 240
Db 199 YTVTSQMLKVHKEDDGPVICOVEHPAVTGNLQRYLEVQYKQVHIQMTYPLQGLTR 258
Qy 241 EGDAPFELTCEAIGKQPQPMVTVWRVDDMPQHAVLSGPNLFINNLTNDNGTYRCEASNI 300
Db 259 EGDALFELTCEAIGKQPQPMVTVWRVDDMPQHAVLSGPNLFINNLTNDNGTYRCEASNI 318
Qy 301 VGKASHDYMLYVYDPPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTSDRAGEEGTIGADVHAIG 360
Db 319 VGKASHDYMLYVYDPPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTSDRAGEEGTIGADVHAIG 378
Qy 361 GVAVVVFAMLCIIILGRYFARHKGTYFTHKAGDADAADATTAIINAEQGNSEKK 420
Db 379 GVAVVVFAMLCIIILGRYFARHKGTYFTHKAGDADAADATTAIINAEQGNSEKK 438
Qy 421 EYF 423
Db 439 EYF 441

RESULT 14

US-10-015-115-111
; Sequence 111, Application US/10015115
; Publication No. US20030207800A1
; GENERAL INFORMATION:
; APPLICANT: Malyankar, Uriel M

; APPLICANT: Shenoy, Suresh G
; APPLICANT: Sytek, Kimberly A
; APPLICANT: Zernhusen, Bryan D
; APPLICANT: Patturajan, Meera
; APPLICANT: Guo, Xiaojia
; APPLICANT: Kekuda, Ramesha
; APPLICANT: Gangolli, Baha A
; APPLICANT: Shinkets, Richard A
; APPLICANT: taupier, Raymond J
; APPLICANT: Li, Li
; APPLICANT: Padigaru, Muralidhara
; TITLE OF INVENTION: Proteins, Polynucleotides Encoding Them and Methods of
; FILE REFERENCE: 21402-211
; CURRENT APPLICATION NUMBER: US/10/015,115
; CURRENT FILING DATE: 2002-09-23
; PRIOR APPLICATION NUMBER: 60/248,153
; PRIOR FILING DATE: 2000-11-13
; PRIOR APPLICATION NUMBER: 60/249,598
; PRIOR FILING DATE: 2000-11-17
; PRIOR APPLICATION NUMBER: 60/264,240
; PRIOR FILING DATE: 2001-01-26
; PRIOR APPLICATION NUMBER: 60/266,127
; PRIOR FILING DATE: 2001-02-02
; PRIOR APPLICATION NUMBER: 60/269,562
; PRIOR FILING DATE: 2001-02-16
; PRIOR APPLICATION NUMBER: 60/304,348
; PRIOR FILING DATE: 2001-07-10
; PRIOR APPLICATION NUMBER: 60/309,261
; PRIOR FILING DATE: 2001-07-31
; PRIOR APPLICATION NUMBER: 60/313,283
; PRIOR FILING DATE: 2001-08-17
; NUMBER OF SEQ ID NOS: 205
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 111
; LENGTH: 442
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-015-115-111

Query Match 98.7%; Score 2169; DB 15; Length 442;
Best Local Similarity 98.8%; Pred. No. 1.5e-151;
Matches 418; Conservative 1; Mismatches 4; Indels 0; Gaps 0;

Qy 1 AAPGLRLRLLLLSAAALIPGQNLFTKQVTVIEGEVATISCOVNSKSDSDSVIQLLN 60
Db 19 AAPGLRLRLLLLSAAALIPGQNLFTKQVTVIEGEVATISCOVNSKSDSDSVIQLLN 78
Qy 61 PNQTIYFRDPRPLKDSRFQLLNFSSELKVSLLTNVSIISDEGRYFCOLYTDPPQESYTTI 120
Db 79 PNQTIYFRDPRPLKDSRFQLLNFSSELKVSLLTNVSIISDEGRYFCOLYTDPPQESYTTI 138
Qy 121 TVLVPPNRLMIDIKQTAVEGEIEVNCAMASKPATIRFWKGNKELKKGKSEVEESDM 180
Db 139 TVLVPPNRLMIDIKQTAVEGEIEVNCAMASKPATIRFWKGNKELKKGKSEVEESDM 198
Qy 181 YTVTSQMLKVHKEDDGPVICOVEHPAVTGNLQRYLEVQYKQVHIQMTYPLQGLTR 240
Db 199 YTVTSQMLKVHKEDDGPVICOVEHPAVTGNLQRYLEVQYKQVHIQMTYPLQGLTR 258
Qy 241 EGDAPFELTCEAIGKQPQPMVTVWRVDDMPQHAVLSGPNLFINNLTNDNGTYRCEASNI 300
Db 259 EGDALFELTCEAIGKQPQPMVTVWRVDDMPQHAVLSGPNLFINNLTNDNGTYRCEASNI 318
Qy 301 VGKASHDYMLYVYDPPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTSDRAGEEGTIGADVHAIG 360
Db 319 VGKASHDYMLYVYDPPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTSDRAGEEGTIGADVHAIG 378
Qy 361 GVAVVVFAMLCIIILGRYFARHKGTYFTHKAGDADAADATTAIINAEQGNSEKK 420
Db 379 GVAVVVFAMLCIIILGRYFARHKGTYFTHKAGDADAADATTAIINAEQGNSEKK 438
Qy 421 EYF 423

```
Db      439 EYF 441
||||
RESULT 15
US-10-363-616-262
; Sequence 262, Application US/10363616
; Publication No. US20040044181A1
; GENERAL INFORMATION:
; APPLICANT: Hvsseq, Inc
; TITLE OF INVENTION: NOVEL NUCLEIC ACIDS AND POLYPEPTIDES
; FILE REFERENCE: 21272-113 (793)
; CURRENT APPLICATION NUMBER: US/10/363,616
; CURRENT FILING DATE: 2003-03-03
; PRIOR APPLICATION NUMBER: 09/654,935
; PRIOR FILING DATE: 2000-09-01
; NUMBER OF SEQ ID NOS: 490
; SEQ ID NO 262
; LENGTH: 442
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-363-616-262

Query Match      98.7%; Score 2169; DB 15; Length 442;
Best Local Similarity 98.8%; Pred. No. 1.5e-151;
Matches 418; Conservative 1; Mismatches 4; Indels 0; Gaps 0;

Qy      1 AAPGLRLRLLLLSAAALIPDGGONLFTKDVTVIEGEVATISQVNVKSDSDSVIQLLN 60
Db      19 AAPGLRLRLLLLSAAALIPDGGONLFTKDVTVIEGEVATISQVNVKSDSDSVIQLLN 78

Qy      61 PNQTIYFRDFRPLKDSRFOLLNFSSELKVSILTNVSI SDEGRYFCOLYTDPPQESYTTI 120
Db      79 PNQTIYFRDFRPLKDSRFOLLNFSSELKVSILTNVSI SDEGRYFCOLYTDPPQESYTTI 138

Qy      121 TVLVPPRNLMIDIQKTAVEGEEIEVNCTAMASKPATTIRWFKGNKELKGKSEVEEWSDM 180
Db      139 TVLVPPRNLMIDIQKTAVEGEEIEVNCTAMASKPATTIRWFKGNTELKGKSEVEEWSDM 198

Qy      181 YVTSQLMLKVHKEDDGPVICQVEHPAVTGNLQRYLEYQVKPQVHIQMTYPLQGLTR 240
Db      199 YVTSQLMLKVHKEDDGPVICQVEHPAVTGNLQRYLEYQVKPQVHIQMTYPLQGLTR 258

Qy      241 EGDAFELTCEAIGKQPQVMVTVWRVDDMPQHAVLSGPNLFINNKNKTNGTYRCEASNI 300
Db      259 EGDALFLTCEAIGKQPQVMVTVWRVDDMPQHAVLSGPNLFINNKNKTNGTYRCEASNI 318

Qy      301 VGKAHSDYMLYVYDPPPTTIPPPPTTTTTTTTTTTTTTTTTTTTITSDRAGEEGTIGAVDHAVIG 360
Db      319 VGKAHSDYMLYVYDPPPTTIPPPPTTTTTTTTTTTTTTTTTTTTITSDRAGEEGSIRAVDHAVIG 378

Qy      361 GVAVVVVFAMLCLLIILGRYFARHKGTYFTHKAGDADAADATAIINAEQGNNSSEKK 420
Db      379 GVAVVVVFAMLCLLIILGRYFARHKGTYFTHKAGDADAADATAIINAEQGNNSSEKK 438

Qy      421 EYF 423
Db      439 EYF 441
```

Search completed: June 28, 2005, 10:12:36
Job time : 109.073 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.

OM protein - protein search, using sw model

Run on: June 28, 2005, 09:43:27 ; Search time 29.341 Seconds
(without alignments)
1076.191 Million cell updates/sec

Title: US-10-622-237-4
Perfect score: 2197
Sequence: 1 AAPPGLRLRLRLLLLLSAAAL.....TAINAEGGQNNSEKKEVF 423

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 513545 seqs, 74649064 residues

Total number of hits satisfying chosen parameters: 513545

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents AA:*
1: /cgn2_6/ptodata/1/iaa/5A_COMB.pep.*
2: /cgn2_6/ptodata/1/iaa/5B_COMB.pep.*
3: /cgn2_6/ptodata/1/iaa/6A_COMB.pep.*
4: /cgn2_6/ptodata/1/iaa/6B_COMB.pep.*
5: /cgn2_6/ptodata/1/iaa/PTUS_COMB.pep.*
6: /cgn2_6/ptodata/1/iaa/backfiles1.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | DB ID | Description |
|------------|-------|-------------|--------|-------|---------------------|
| 1 | 2197 | 100.0 | 423 | 4 | US-09-778-510-22 |
| 2 | 2169 | 98.7 | 442 | 4 | US-09-778-510-20 |
| 3 | 2169 | 98.7 | 442 | 4 | US-09-930-803-1 |
| 4 | 2149 | 97.8 | 440 | 4 | US-09-866-028-61 |
| 5 | 2149 | 97.8 | 440 | 4 | US-09-944-457-61 |
| 6 | 904 | 41.1 | 444 | 2 | US-08-659-984A-5 |
| 7 | 904 | 41.1 | 444 | 3 | US-08-660-531-5 |
| 8 | 893.5 | 40.7 | 421 | 2 | US-08-659-984A-1 |
| 9 | 893.5 | 40.7 | 421 | 3 | US-08-660-531-1 |
| 10 | 738.5 | 33.6 | 398 | 4 | US-09-778-510-4 |
| 11 | 732.5 | 33.3 | 398 | 4 | US-09-778-510-6 |
| 12 | 732.5 | 33.3 | 398 | 4 | US-09-907-794A-84 |
| 13 | 732.5 | 33.3 | 398 | 4 | US-09-905-125A-84 |
| 14 | 732.5 | 33.3 | 398 | 4 | US-09-902-775A-84 |
| 15 | 732.5 | 33.3 | 398 | 4 | US-09-906-700-84 |
| 16 | 732.5 | 33.3 | 398 | 4 | US-09-903-603A-84 |
| 17 | 732.5 | 33.3 | 398 | 4 | US-09-904-920A-84 |
| 18 | 732.5 | 33.3 | 398 | 4 | US-09-909-064-84 |
| 19 | 732.5 | 33.3 | 398 | 4 | US-09-905-381A-84 |
| 20 | 732.5 | 33.3 | 398 | 4 | US-09-906-618-84 |
| 21 | 715.5 | 32.6 | 432 | 4 | US-09-778-510-2 |
| 22 | 333 | 15.2 | 227 | 4 | US-09-205-258-947 |
| 23 | 252.5 | 11.5 | 514 | 4 | US-09-949-016-11380 |
| 24 | 252.5 | 11.5 | 517 | 4 | US-09-723-368-4 |
| 25 | 244 | 11.1 | 518 | 4 | US-09-919-172-20 |
| 26 | 232.5 | 10.6 | 417 | 4 | US-09-949-016-6729 |
| 27 | 232 | 10.6 | 819 | 4 | US-09-949-016-11044 |

| | | | | | | |
|----|-------|------|------|---|--------------------|--------------------|
| 28 | 231.5 | 10.5 | 393 | 1 | US-08-429-742-2 | Sequence 2, Appli |
| 29 | 231.5 | 10.5 | 456 | 4 | US-09-949-016-7564 | Sequence 7564, Ap |
| 30 | 226.5 | 10.3 | 479 | 4 | US-09-723-368-2 | Sequence 2, Appli |
| 31 | 226.5 | 10.3 | 479 | 4 | US-09-949-016-6278 | Sequence 6278, Ap |
| 32 | 226.5 | 10.3 | 522 | 4 | US-09-949-016-7563 | Sequence 7563, Ap |
| 33 | 222 | 10.1 | 837 | 4 | US-09-949-016-6515 | Sequence 6515, Ap |
| 34 | 220.5 | 10.0 | 344 | 4 | US-09-700-397-3 | Sequence 3, Appli |
| 35 | 216 | 9.8 | 458 | 4 | US-09-435-956A-1 | Sequence 1, Appli |
| 36 | 212 | 9.6 | 313 | 4 | US-09-700-397-4 | Sequence 4, Appli |
| 37 | 212 | 9.6 | 4391 | 4 | US-10-006-011A-2 | Sequence 2, Appli |
| 38 | 207.5 | 9.4 | 646 | 4 | US-09-949-016-6728 | Sequence 6728, Ap |
| 39 | 207.5 | 9.4 | 646 | 4 | US-09-653-961-4 | Sequence 4, Appli |
| 40 | 206.5 | 9.4 | 308 | 2 | US-08-414-657D-46 | Sequence 46, Appli |
| 41 | 206.5 | 9.4 | 325 | 2 | US-08-414-657D-2 | Sequence 2, Appli |
| 42 | 206.5 | 9.4 | 325 | 2 | US-08-414-657D-41 | Sequence 41, Appli |
| 43 | 206.5 | 9.4 | 325 | 4 | US-09-135-080-2 | Sequence 2, Appli |
| 44 | 206.5 | 9.4 | 338 | 4 | US-09-976-594-404 | Sequence 404, App |
| 45 | 206 | 9.4 | 388 | 1 | US-08-429-742-4 | Sequence 4, Appli |

ALIGNMENTS

RESULT 1
US-09-778-510-22
; Sequence 22, Application US/09778510
; Patent No. 6512095
; GENERAL INFORMATION:
; APPLICANT: Baum, Peter
; TITLE OF INVENTION: Molecules Designated B7L1
; FILE REFERENCE: 2844-US
; CURRENT APPLICATION NUMBER: US/09/778, 510
; PRIOR FILING DATE: 2001-02-07
; PRIOR APPLICATION NUMBER: PCT/US99/17906
; PRIOR FILING DATE: 1999-08-05
; PRIOR APPLICATION NUMBER: 60/095,663
; PRIOR FILING DATE: 1998-08-07
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 22
; LENGTH: 423
; TYPE: PRT
; ORGANISM: Mus musculus
US-09-778-510-22

| | | | | | |
|-----------------------|-----|-------------------------|--------------------------|------------------------|-------------|
| Query Match | | 100.0% | Score 2197; | DB 4; | Length 423; |
| Best Local Similarity | | 100.0% | Pred. No. 5e-187; | | |
| Matches 423; | | Conservative 0; | Mismatches 0; | Indels 0; | Gaps 0; |
| Qy | 1 | AAPPGLRLRLRLLLLLSAAALIP | TGDSQNLPTKDVTVIEGEVATIS | COVNKSDSDSVIQLLN | 60 |
| Db | 1 | AAPPGLRLRLRLLLLLSAAALIP | TGDSQNLPTKDVTVIEGEVATIS | COVNKSDSDSVIQLLN | 60 |
| Qy | 61 | PNRQTYFRDRLPKDSRFOLLNFS | SELKSVLTNNVSI | SDSGRYFCOLYTDPPQESVTTI | 120 |
| Db | 61 | PNRQTYFRDRLPKDSRFOLLNFS | SELKSVLTNNVSI | SDSGRYFCOLYTDPPQESVTTI | 120 |
| Qy | 121 | TVLVPPRNLMIDLOKDTAVEGEI | EVNCTAMASKPATTIRFWKGNKEL | KGKSEVEEWSDM | 180 |
| Db | 121 | TVLVPPRNLMIDLOKDTAVEGEI | EVNCTAMASKPATTIRFWKGNKEL | KGKSEVEEWSDM | 180 |
| Qy | 181 | YTVTSQMLKVKHEDDGPVVICQ | VEHPAVTGNLTQRYLEVYKQPQV | HIQNTYPLQGLTR | 240 |
| Db | 181 | YTVTSQMLKVKHEDDGPVVICQ | VEHPAVTGNLTQRYLEVYKQPQV | HIQNTYPLQGLTR | 240 |
| Qy | 241 | EGDAFELTCEAIGKPPQVMTW | VRVDEMPQHAVLSGPNLFINN | KNKTNDGTYRCEASNI | 300 |
| Db | 241 | EGDAFELTCEAIGKPPQVMTW | VRVDEMPQHAVLSGPNLFINN | KNKTNDGTYRCEASNI | 300 |
| Qy | 301 | VGAHSDYMLYVYDPPPTTIP | PPPTTTTTTTTTTTTTTTTT | TTTTTTTTTTTTTTTTTTTT | 360 |
| Db | 301 | VGAHSDYMLYVYDPPPTTIP | PPPTTTTTTTTTTTTTTTTT | TTTTTTTTTTTTTTTTTTTT | 360 |

QY 361 GVVAVVVFAMLCLLIILGRYFARHKGTYFTHEAKGADDAADADTAIINAEAGGQNNSEKK 420
Db 361 GVVAVVVFAMLCLLIILGRYFARHKGTYFTHEAKGADDAADADTAIINAEAGGQNNSEKK 420
QY 421 EYF 423
Db 421 EYF 423

RESULT 2
US-09-778-510-20
; Sequence 20, Application US/09778510
; Patent No. 6512095
; GENERAL INFORMATION:
; APPLICANT: Baum, Peter
; TITLE OF INVENTION: Molecules Designated B7L1
; FILE REFERENCE: 2844-US
; CURRENT APPLICATION NUMBER: US/09/778,510
; PRIOR APPLICATION DATE: 2001-02-07
; PRIOR APPLICATION NUMBER: PCT/US99/17906
; PRIOR FILING DATE: 1999-08-05
; PRIOR APPLICATION NUMBER: 60/095,663
; PRIOR FILING DATE: 1998-08-07
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 20
; LENGTH: 442
; TYPE: PRT
; ORGANISM: Homo sapien
US-09-778-510-20

Query Match 98.7%; Score 2169; DB 4; Length 442;
Best Local Similarity 98.8%; Pred. No. 1.7e-184;
Matches 418; Conservative 1; Mismatches 4; Indels 0; Gaps 0;

QY 1 AAPPGLRLRLLLLSAALIPTGDGQNLFTKDVTVIEGEVATISQVKNKSDSDSVIQLLN 60
Db 19 AAPPGLRLRLLLLSAALIPTGDGQNLFTKDVTVIEGEVATISQVKNKSDSDSVIQLLN 78
QY 61 PNRQTIYFRDPRPLKDSRFOLLNFSSELKVSILTNVSI DSGRYFCQLYTDPPQESYTTI 120
Db 79 PNRQTIYFRDPRPLKDSRFOLLNFSSELKVSILTNVSI DSGRYFCQLYTDPPQESYTTI 138
QY 121 TVLVPPRNLMIDIQKDTAVEGEIEVNCCTAMASKPATIRFWKGNKELKGKSEVEWSDM 180
Db 139 TVLVPPRNLMIDIQKDTAVEGEIEVNCCTAMASKPATIRFWKGNKELKGKSEVEWSDM 198
QY 181 YTVTSQMLKVKHEDDGPVVICQVEHPAVTGNLQTORYLEVQYKPOVHIQMTYPLQGLTR 240
Db 199 YTVTSQMLKVKHEDDGPVVICQVEHPAVTGNLQTORYLEVQYKPOVHIQMTYPLQGLTR 258
QY 241 EGDALFELTCEAIGKPOPMVWVRVDDMPQHAVLSGPNLFINNLMKTDNGTYRCEASNI 300
Db 259 EGDALFELTCEAIGKPOPMVWVRVDDMPQHAVLSGPNLFINNLMKTDNGTYRCEASNI 318
QY 301 VGKASDYMLYVYDPTTIPPPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 360
Db 319 VGKASDYMLYVYDPTTIPPPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 378
QY 361 GVVAVVVFAMLCLLIILGRYFARHKGTYFTHEAKGADDAADADTAIINAEAGGQNNSEKK 420
Db 379 GVVAVVVFAMLCLLIILGRYFARHKGTYFTHEAKGADDAADADTAIINAEAGGQNNSEKK 438
QY 421 EYF 423
Db 439 EYF 441

RESULT 3
US-09-930-803-1
; Sequence 1, Application US/09930803
; Patent No. 6596493
; GENERAL INFORMATION:

; APPLICANT: THE JOHNS HOPKINS UNIVERSITY SCHOOL OF MEDICINE
; APPLICANT: REEVES, Roger
; APPLICANT: YOSHINORI, Muramaki
; TITLE OF INVENTION: DIAGNOSIS AND TREATMENT OF TUMOR-SUPPRESSOR ASSOCIATED DISORDERS
; FILE REFERENCE: JHUI770-1
; CURRENT APPLICATION NUMBER: US/09/930,803
; CURRENT FILING DATE: 2001-08-15
; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 1
; LENGTH: 442
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-930-803-1

Query Match 98.7%; Score 2169; DB 4; Length 442;
Best Local Similarity 98.8%; Pred. No. 1.7e-184;
Matches 418; Conservative 1; Mismatches 4; Indels 0; Gaps 0;

QY 1 AAPPGLRLRLLLLSAALIPTGDGQNLFTKDVTVIEGEVATISQVKNKSDSDSVIQLLN 60
Db 19 AAPPGLRLRLLLLSAALIPTGDGQNLFTKDVTVIEGEVATISQVKNKSDSDSVIQLLN 78
QY 61 PNRQTIYFRDPRPLKDSRFOLLNFSSELKVSILTNVSI DSGRYFCQLYTDPPQESYTTI 120
Db 79 PNRQTIYFRDPRPLKDSRFOLLNFSSELKVSILTNVSI DSGRYFCQLYTDPPQESYTTI 138
QY 121 TVLVPPRNLMIDIQKDTAVEGEIEVNCCTAMASKPATIRFWKGNKELKGKSEVEWSDM 180
Db 139 TVLVPPRNLMIDIQKDTAVEGEIEVNCCTAMASKPATIRFWKGNKELKGKSEVEWSDM 198
QY 181 YTVTSQMLKVKHEDDGPVVICQVEHPAVTGNLQTORYLEVQYKPOVHIQMTYPLQGLTR 240
Db 199 YTVTSQMLKVKHEDDGPVVICQVEHPAVTGNLQTORYLEVQYKPOVHIQMTYPLQGLTR 258
QY 241 EGDALFELTCEAIGKPOPMVWVRVDDMPQHAVLSGPNLFINNLMKTDNGTYRCEASNI 300
Db 259 EGDALFELTCEAIGKPOPMVWVRVDDMPQHAVLSGPNLFINNLMKTDNGTYRCEASNI 318
QY 301 VGKASDYMLYVYDPTTIPPPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 360
Db 319 VGKASDYMLYVYDPTTIPPPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 378
QY 361 GVVAVVVFAMLCLLIILGRYFARHKGTYFTHEAKGADDAADADTAIINAEAGGQNNSEKK 420
Db 379 GVVAVVVFAMLCLLIILGRYFARHKGTYFTHEAKGADDAADADTAIINAEAGGQNNSEKK 438
QY 421 EYF 423
Db 439 EYF 441

RESULT 4
US-09-866-028-61
; Sequence 61, Application US/09866028
; Patent No. 6642360
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin
; APPLICANT: Botstein, David
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gerritsen, Mary
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul
; APPLICANT: Grimaldi, Christopher
; APPLICANT: Gurney, Austin
; APPLICANT: Hillan, Kenneth
; APPLICANT: Kljavin, Ivar
; APPLICANT: Napier, Mary
; APPLICANT: Roy, Margaret
; APPLICANT: Tumas, Daniel
; APPLICANT: Wood, William


```
; STREET: Two Embarcadero Ctr., 8th Floor
; CITY: San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94111-3834
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/660,531
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/480,498
; FILING DATE: 07-JUN-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Heslin, James M.
; REGISTRATION NUMBER: 29,541
; REFERENCE/DOCKET NUMBER: 15270-002210US
; TELEPHONE: 415-326-2400
; TELEFAX: 415-326-2422
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 444 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-660-531-5

Query Match : 41.1%; Score 904; DB 3; Length 444;
Best Local Similarity 44.7%; Pred. No. 5.8e-72;
Matches 194; Conservative 74; Mismatches 136; Indels 30; Gaps 7;

QY 13 LLLSAAA---LIPTGQNLFTKDVTVIEGEVATISCVNKSDDSVIQLNPNRQTIYFR 69
DB 17 LLLQAAAKNKKVKSQGFPLTQNTVVEGGTALTCTRVQDNDNTSLQNSNPAQOTLYFD 76
QY 70 DREPLKDSRFLANFSSSELKVLNVSISDEGRYFCQLYTDPPQESYTTITVLVPPRNL 129
DB 77 DKALRDNRLIELVRASWHELVSISVDSLSDEGQYTCSLFTMPVKTSKAYLTVLGVPEKP 136
QY 130 MIDIQKDTAVEGEEIEVNCVTAMASKPATITIRWFKGNKELKGKSEVBEWS---DMYTVTSQ 186
DB 137 QISGFSSPVMEGLMQLTCKTSGSKPAADIRWFKNDKEIKDKVYLKEEDANRKTFTVSST 196
QY 187 LMLKVHKDDGVPVICQVEHPAVTGNLQ--TORVLEVOYKPVQVHIQMTYPLQGLTRGDAP 245
DB 197 LDPVRDRSDDGVAVICRVDHESLNATPQVAMQVLEIHYTPSVKI---IPSTPPFQEGQPL 253
QY 246 ELTCEAIGKPPQVMTVVRVDDM--PQHAVLSGPNLFINNKNKTNGTYRCEASNIYVK 303
DB 254 ILTCEKSGKPLPEPVLMTKDGGLPDRMVVSGRELNLFLNKTNGTYRCEATNTIGQ 313
QY 304 AHSDDYMLVYVDPPTTTPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 349
DB 314 SSAREYLVHVDVNTLLPTIIPSLTATVTTVAITTSPTTSATTSIRDNPALAGONG 373
QY 350 TIGAVDHAVTGGVAVVVFVAMLCILLIILGRYFARHKGTFTYTHAKGADDAADATTAI 409
DB 374 P-----DHALLIGGIVAVVVFVTLCSIFILGRYLARHKGTFTYLTNEAKGADAPDADTAI 429
QY 410 EGGQNSSEKKEYF 423
DB 430 EGSQVNAEKEKEYF 443

RESULT 8
US-08-659-984A-1
; Sequence 1, Application US/08659984A
```

```
; Patent No. 5942400
; GENERAL INFORMATION:
; APPLICANT: Anderson, John P.
; APPLICANT: Sinha, Sukanto
; APPLICANT: Jacobson-Croak, Kirsten L.
; TITLE OF INVENTION: Assays for Detecting Beta-Secretase
; TITLE OF INVENTION: Inhibition
; NUMBER OF SEQUENCES: 21
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Townsend and Townsend and Crew LLP
; STREET: Two Embarcadero Ctr., 8th Floor
; CITY: San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94111-3834
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/659,984A
; FILING DATE: 07-JUN-1996
; CLASSIFICATION: 436
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/485,152
; FILING DATE: 07-JUN-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Heslin, James M.
; REGISTRATION NUMBER: 29,541
; REFERENCE/DOCKET NUMBER: 15270-002810US
; TELEPHONE: 415-326-2400
; TELEFAX: 415-326-2422
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 421 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-659-984A-1

Query Match : 40.7%; Score 893.5; DB 2; Length 421;
Best Local Similarity 45.0%; Pred. No. 4.6e-71;
Matches 188; Conservative 73; Mismatches 130; Indels 27; Gaps 6;

QY 26 GQNLFTKDVTVIEGEVATISCVNKSDDSVIQLNPNRQTIYFRDREPLKDSRFLNFS 85
DB 10 GGFPLTQNTVVEGGTALTCTRVQDNDNTSLQNSNPAQOTLYFDDKALRDNRLVRS 69
QY 86 SSELKVLNVSISDEGRYFCQLYTDPPQESYTTITVLVPPRNLMDIQKDTAVEGEEIE 145
DB 70 WHELVSISVDSLSDEGQYTCSLFTMPVKTSKAYLTVLGVPEKPQISGFSSPVMEGLMQ 129
QY 146 VNCVTAMASKPATITIRWFKGNKELKGKSEVBEWS---DMYTVTSQMLKVHKDDGVPVIC 202
DB 130 LTCSTSGSKPAADIRWFKNDKEIKDKVYLKEEDANRKTFTVSTLDFRVDSDGVAVIC 189
QY 203 QVEHPAVTGNLQ--TORVLEVOYKPVQVHIQMTYPLQGLTRGDAPFELTCEAIGKPPQVMT 261
DB 190 RVDHESLNATPQVAMQVLEIHYTPSVKI---IPSTPPFQEGQPLIITCEKSGKPLPEPVL 246
QY 262 WVRVDDM--PQHAVLSGPNLFINNKNKTNGTYRCEASNIYVKAHSDYMLVYVDPPTTI 319
DB 247 WTKDGGLPDRMVVSGRELNLFLNKTNGTYRCEATNTIGQSAEYLVHVDVNTL 306
QY 320 PPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 365
DB 307 LPTTIIPSLTATVTTVAITTSPTTSATTSIRDNPALAGONGP---DHALLIGGIVAV 362
QY 366 VVPAMLCILLIILGRYFARHKGTFTYTHAKGADDAADATTAIINAEQNSSEKKEYF 423
```

Db 363 VWFVTLCSIFLLGRLYLARKHGTLYLTNEAKGAEDAPADPTAIINAEGSQVNAEBKKEYP 420

RESULT 9

US-08-660-531-1

; Sequence 1, Application US/08660531

; Patent No. 6221645

; GENERAL INFORMATION:

; APPLICANT: Chrysler, Susanna M.S.

; APPLICANT: Sinha, Sukanto

; APPLICANT: Keim, Pamela S.

; APPLICANT: Anderson, John P.

; TITLE OF INVENTION: Beta-Secretase

; NUMBER OF SEQUENCES: 21

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Townsend and Townsend and Crew LLP

; STREET: Two Embarcadero Ctr., 8th Floor

; CITY: San Francisco

; STATE: California

; COUNTRY: USA

; ZIP: 94111-3834

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: PatentIn Release #1.0, Version #1.25

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/660,531

; FILING DATE:

; CLASSIFICATION: 435

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: US 08/480,498

; FILING DATE: 07-JUN-1995

; ATTORNEY/AGENT INFORMATION:

; NAME: Heslin, James M.

; REGISTRATION NUMBER: 29,541

; REFERENCE/DOCKET NUMBER: 15270-002210US

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: 415-326-2400

; TELEFAX: 415-326-2422

; INFORMATION FOR SEQ ID NO: 1:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 421 amino acids

; TYPE: amino acid

; STRANDEDNESS: single

; TOPOLOGY: linear

; MOLECULE TYPE: protein

US-08-660-531-1

Query Match 40.7%; Score 893.5; DB 3; Length 421;

Best Local Similarity 45.0%; Pred. No. 4.6e-71;

Matches 188; Conservative 73; Mismatches 130; Indels 27; Gaps 6;

Qy 26 GQNLFTKDVTVIEGEVATISQVKNKSDSDSVIQLLNPNRQTIYFRDPRPKOSRFQLNFS 85

Db 10 GQFPLQNTVVEGGTALLTCRDQNDNTSLQSNPAQQTLYFDKKAALRDNRIELVRAS 69

Qy 86 SSELKSLTNVSISSDEGRYFCQLYTDPQESYTTITVLVPPRNLMDIQKTAVEGEEIE 145

Db 70 WHELSISVSDSLSDSGQYTCSLTFPVKTSKAYLTVLGVPEKQISGFSFPMEGDLMQ 129

Qy 146 VNCMTAMASKPATIRWPKGNKELKSGSEVEWS--DMYTVTSQMLKVHKEDDGVPPVIC 202

Db 130 LTCKTSGSKPAADIRWPKGNKEIKDVVKYKKEEDANKTFTVSTLDFRVDNRSDGVAVIC 189

Qy 203 QVEHPAVTGNLQ-TQRYLEYVOYKPVHIOQWYFLOGLTRREGDAFELTCEAIGKPPQPMVT 261

Db 190 RVDHESLNATPQVAMQVLEIHYTPSVKI---IPSTFPQSQPLILTCESKGPPEPVL 246

Qy 262 WVRVDDM--PQHAVLSGPNLFINNKNKTNGTYRCEASNIIVGKAHSDYMLYVDPPTTI 319

Db 247 WTKDGGELPDPRMVMVSGRELNIFLNKNTDNGTYRCEANTTICQSSAEYVLIYVHVPNTL 306

Qy 320 PPPTTTTTTTTTTTTTTTTTTTTT-----DSRAGEBGTTCVADHVAIGGVAV 365

Db 307 LPTTIIPSLTTATVTTTVAITTSPTTSATTSIRDPNALAGQNGP---DHALIGGIVAV 362

Qy 366 VVFAMCLLIILIGRYFARHKGTGYFTHKAGDAADADPTAIINAEGQNNSEBKKKYF 423

Db 363 VWFVTLCSIFLLGRLYLARKHGTLYLTNEAKGAEDAPADPTAIINAEGSQVNAEBKKEYP 420

RESULT 10

US-09-778-510-4

; Sequence 4, Application US/09778510

; Patent No. 6512095

; GENERAL INFORMATION:

; APPLICANT: Baum, Peter

; TITLE OF INVENTION: Molecules Designated B7L1

; FILE REFERENCE: 2844-US

; CURRENT APPLICATION NUMBER: US/09/778,510

; CURRENT FILING DATE: 2001-02-07

; PRIOR APPLICATION NUMBER: PCT/US99/17906

; PRIOR FILING DATE: 1999-08-05

; PRIOR APPLICATION NUMBER: 60/095,663

; PRIOR FILING DATE: 1998-08-07

; NUMBER OF SEQ ID NOS: 22

; SOFTWARE: PatentIn Ver. 2.0

; SEQ ID NO 4

; LENGTH: 398

; TYPE: PRT

; ORGANISM: Mus musculus

US-09-778-510-4

Query Match 33.6%; Score 738.5; DB 4; Length 398;

Best Local Similarity 38.8%; Pred. No. 2.6e-57;

Matches 165; Conservative 73; Mismatches 136; Indels 51; Gaps 9;

Qy 12 LLLLSAAALIPTC-----DQNLFTKDVTVIEGEVATISQVKNKSDSDSVIQLLNPNRQTI 66

Db 11 LLLLSACSWAPGAGNLSQDSDSQPWTSDETVWAGTVVLKQVKDHDSDLSQWSNPAQQL 70

Qy 67 YFRDPRPKOSRFQLNFSSELKSLTNVSISSDEGRYFCQLYTDPQESYTTITVLVVP 126

Db 71 YFGEKRALRDNRILQVSSSTPHELSISISNVALADEGEYTCSTFTMPVTRAKSLTVVLGIP 130

Qy 127 RNLMIDIQKTAVEGEEIEVNCVTAMASKPATIRWPKGNKELKG-KSEVEEWS--MYTV 183

Db 131 QKPIITGYKSSLREKETATLNCQSSGSKPAQAQLTWKKGQDLHGDQTRIQEDPNGKTFV 190

Qy 184 TSQMLKVHKEDDGVPPVICQVEHPAVTG-NLOTQRYLEYVOYKPVHIOQWYFLOGLTREG 242

Db 191 SSSVSQVTVREDDGANIVGSVNHESLKGADRSTQSRIEVLVTPAMIR---PEPAHPREG 247

Qy 243 DAFELTCEAIGKPPQPMVTWVRVDDMP---QHAVLSGPNLFINNKNKTNGTYRCEAS 298

Db 248 QKLLHCEGRGNPVPQOYVWVKEGSEPLKMTQESALIFP-----FLNKSDSGTYGCTAT 302

Qy 299 NTVGKAHSDYMLYVDPPTTIPPTTTTTTTTTTTTTTTTTTTITLITDSRAGEGTICADVDAH 358

Db 303 SNMGSTAYFTLVNDPS---PVPSSSTY-----PVPSSSTY-----HAI 332

Qy 359 IGGWAVVVVFMCLLIILIGRYFARHKGTGYFTHKAGDAADADPTAIINAEGQNNSE 418

Db 333 IGGIVAFIVLLIILLIIFLGHYLIRHKGTLYLTNEAKGSDPADPTAIINAEGQSGGDD 392

Qy 419 KKEYF 423

Db 393 KKEYF 397

RESULT 11

US-09-778-510-6

; Sequence 6, Application US/09778510

; Patent No. 6512095

; GENERAL INFORMATION:

```
; APPLICANT: Baum, Peter
; TITLE OF INVENTION: Molecules Designated B711
; FILE REFERENCE: 2844-US
; CURRENT APPLICATION NUMBER: US/09/778.510
; CURRENT FILING DATE: 2001-02-07
; PRIOR APPLICATION NUMBER: PCT/US99/17906
; PRIOR FILING DATE: 1999-08-05
; PRIOR APPLICATION NUMBER: 60/095,663
; PRIOR FILING DATE: 1998-08-07
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 6
; LENGTH: 398
; TYPE: PRT
; ORGANISM: Homo sapien
US-09-778-510-6

Query Match 33.3%; Score 732.5; DB 4; Length 398;
Best Local Similarity 38.3%; Pred. No. 9e-57;
Matches 162; Conservative 74; Mismatches 144; Indels 43; Gaps 8;

QY 10 LLLLLSAAALIPGTG-----DGNLFYKDVTVIEGEVATISQVKNKSDSDSVIQLLNPNRQ 64
Db 9 LLLLLFACCCWAPGANLSQDDSQPWTSDETVWAGGTWVKLCQVKDHEDSSLOWSNPAQQ 68
QY 65 TIYFRDRPLKDSRFOLLNFSSSELKVS LTNVTSISDEGRYFCQLYTDPPQESYTTITVLV 124
Db 69 TLYFGEKRALRDNRIQLVTSTPHELSSISNVALADEGYTCSTFTMPVRTAKSLVTLG 128
QY 125 PPRNLMDIDOKDTAVEGEEIEVNTAMASKPATTTIRWFKGNKELGKG-SEVEWSD--MY 181
Db 129 IPQKPIITGYKSSLRKEDTATLNCQSSGSKPAARLTWRKGDQLHGEPTRIQSDPNKTF 188
QY 182 TVTSQMLKVKHEDGDPVVICQVEHPAVTG-NLQTRYLEVOYKPKQVHIQMTYPLQGLTR 240
Db 189 TVSSSVTFQVTRDDGASIVCSVNHESLKGADRSTQRIEVLTYTPTAMIRPDPP---HPR 245
QY 241 EGDAFELTCAIGKQPQPMVTVWVDEMPQHAVLSGPNFNNLNKTNDGTGVRCEASNI 300
Db 246 EGQKLLHCEGRGNFVPPQQLWEK-EGSVPPKMTQESALIFPFLNKSDSGTGCTATSN 304
QY 301 VGRAHSDYMLVYVDPPTTIPPTTTTTTTTTTTTTTTTTTTTTITLITDSRAGEEGTIGAVDHA 360
Db 305 MGSYKAYTLVNNDPS---PVPSSSTY-----HAIIG 334
QY 361 GVAVVVFVAMCLLIILIGRYFARHKGYFTTHEAKGADDAADATTAIINAEQGQNNSEKK 420
Db 335 GIVAFIVFLLLIMLIFLGHYLRHKGYLTTHEAKGSDADPADATTAIINAEQSGGDDKK 394
QY 421 EYF 423
Db 395 EYF 397

RESULT 12
US-09-707-794A-84
; Sequence 84, Application US/09907794A
; Patent No. 6635468
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Geritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
```



```
QY 182 TVTSQMLKVHKEDDGVFVTCQVEHPAVTG-NLQORYLEVQYKQVHQMITYPLOGLTR 240
Db 189 TVSSSVTFQVTRDDGASIVCSNVHESLKGADRSTSQRIEVLVYPTAMIRPDPP---HPR 245
QY 241 EGDAFELTCEAIGKQPQVWTVVRVDDMPQHAVLSGPNLFINNLTNDGTVCCEASNI 300
Db 246 EGQKLLHCEGRGNFVPPQYLWEK-EGSVPLKMTQESALIFPFLNKSDSGTGCTATSN 304
QY 301 VGKAHSDYMLYVYDPTTTPPTTTTTTTTTTTTTTTTTTTTTITDTSRAGEEGTIGAVDHAVID 360
Db 305 MGSYKAYTTLNVNDPS---PVPSSSTY-----HAIIG 334
QY 361 GVAVVVVFMCLLLIILGRYFARHKGTFTYTHEAKGADDAADADTAIINAEQGNSEKK 420
Db 335 GIVAFIVFLLIIMLIFLGHYLRHKGTYLTHEAKGSDADPADADTAIINAEQGSQGGDDKX 394
QY 421 EYF 423
Db 395 EYF 397

RESULT 13
US-09-905-125A-84
; Sequence 84, Application US/09905125A
; Patent No. 6664376
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnovers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kijavlin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE OF INVENTION: 10466-14
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/905,125A
; CURRENT FILING DATE: 2001-07-12
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
```

```
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 84
; LENGTH: 398
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-905-125A-84

Query Match 33.3%; Score 732.5; DB 4; Length 398;
Best Local Similarity 38.3%; Pred. No. 9e-57;
Matches 162; Conservative 74; Mismatches 144; Indels 43; Gaps 8;

QY 10 LLLLLLAAALIPGT-----DQNLFTKDVTVIEGVATISQVKNKSDSVTLQLLNPRQ 64
Db 9 LLLLLLFACCWAPGGANLSQDSDSQPMTSDTVVAGTVVLKQCVKDHEDSSLQWSNPAQ 68
QY 65 TIVFRDFRPLKDSRFOLLNFSSELKVSILTNVSISSDEGRYFCOLYTRDPQESVTTITVLV 124
Db 69 TLYFGKRALDRNRLOLVSTSPHELSISISNVALADEGYTCSIFTMPVTKASLVTVLG 128
QY 125 PPRNLMDIQDQTAVEGEEIEVNTAMASKPATTIRWFKGNKELGK-SEVEEWS--MY 181
Db 129 IQKPIITGVKSSLREKDTATLNCQSSGSKPAARLTWRKGDQELHCEPTRIQEDPNGKTF 188
QY 182 TVTSQMLKVHKEDDGVFVTCQVEHPAVTG-NLQORYLEVQYKQVHQMITYPLOGLTR 240
Db 189 TVSSSVTFQVTRDDGASIVCSNVHESLKGADRSTSQRIEVLVYPTAMIRPDPP---HPR 245
QY 241 EGDAFELTCEAIGKQPQVWTVVRVDDMPQHAVLSGPNLFINNLTNDGTVCCEASNI 300
Db 246 EGQKLLHCEGRGNFVPPQYLWEK-EGSVPLKMTQESALIFPFLNKSDSGTGCTATSN 304
QY 301 VGKAHSDYMLYVYDPTTTPPTTTTTTTTTTTTTTTTTTTTTITDTSRAGEEGTIGAVDHAVID 360
Db 305 MGSYKAYTTLNVNDPS---PVPSSSTY-----HAIIG 334
QY 361 GVAVVVVFMCLLLIILGRYFARHKGTFTYTHEAKGADDAADADTAIINAEQGNSEKK 420
Db 335 GIVAFIVFLLIIMLIFLGHYLRHKGTYLTHEAKGSDADPADADTAIINAEQGSQGGDDKX 394
QY 421 EYF 423
Db 395 EYF 397

RESULT 14
US-09-902-775A-84
; Sequence 84, Application US/09902775A
; Patent No. 6686451
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnovers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
```


Search completed: June 28, 2005, 09:55:53
Job time : 31.341 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.

OM protein - protein search, using sw model

Run on: June 28, 2005, 10:07:28 ; Search time 26.5711 Seconds
(without alignments)
1600.529 Million cell updates/sec

Title: US-10-622-237-2

Perfect score: 442

Sequence: 1 MASVLPSSGSCAAAAA.....AIIAEGGQNNSEKEYFI 442

Scoring table:

Gapop 60.0 , Gapext 60.0

Searched: 283416 seqs, 96216763 residues

Word size : 0

Total number of hits satisfying chosen parameters: 283416

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 150 summaries

Database :

1: PIR.79.*
2: PIR2.*
3: PIR3.*
4: PIR4.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | DB ID | Description |
|------------|-------|-------------|--------|----------|---------------------|
| 1 | 15 | 3.4 | 108 | 2 T26880 | hypothetical prote |
| 2 | 15 | 3.4 | 327 | 2 S20074 | promastigote surfa |
| 3 | 14 | 3.2 | 304 | 2 T15922 | hypothetical prote |
| 4 | 14 | 3.2 | 512 | 2 T02498 | probable WRKY-type |
| 5 | 14 | 3.2 | 516 | 2 S19252 | 1-aminocyclopropan |
| 6 | 14 | 3.2 | 518 | 2 S31442 | rep protein - slim |
| 7 | 14 | 3.2 | 889 | 2 A35679 | mucin-like glycopr |
| 8 | 14 | 3.2 | 1832 | 2 T31113 | alkaline phosphata |
| 9 | 13 | 2.9 | 67 | 2 B56888 | salivary glue prot |
| 10 | 13 | 2.9 | 217 | 2 S01358 | hypothetical prote |
| 11 | 13 | 2.9 | 245 | 2 T26868 | merozoite surface |
| 12 | 13 | 2.9 | 274 | 2 A45632 | merozoite surface |
| 13 | 13 | 2.9 | 278 | 2 S39310 | merozoite surface |
| 14 | 13 | 2.9 | 284 | 2 T22023 | hypothetical prote |
| 15 | 13 | 2.9 | 341 | 2 T32949 | hypothetical prote |
| 16 | 13 | 2.9 | 517 | 2 T20658 | probable zinc meta |
| 17 | 13 | 2.9 | 519 | 2 T23739 | hypothetical prote |
| 18 | 13 | 2.9 | 551 | 2 S18408 | alkaline phosphata |
| 19 | 13 | 2.9 | 560 | 2 T32661 | hypothetical prote |
| 20 | 13 | 2.9 | 651 | 2 T21175 | hypothetical prote |
| 21 | 13 | 2.9 | 781 | 2 S51592 | XyNB precursor - R |
| 22 | 13 | 2.9 | 831 | 2 T08611 | hypothetical prote |
| 23 | 13 | 2.9 | 975 | 2 T08606 | protein phosphatas |
| 24 | 13 | 2.9 | 1023 | 2 S12519 | glutactin - fruit |
| 25 | 13 | 2.9 | 1076 | 2 JC2217 | major surface glyco |
| 26 | 13 | 2.9 | 1083 | 2 JC2300 | cell surface glyco |
| 27 | 13 | 2.9 | 1099 | 2 T18257 | phospholipase C - |
| 28 | 13 | 2.9 | 1282 | 2 JE0120 | glycoprotein A - m |
| 29 | 13 | 2.9 | 1402 | 2 T17456 | cell surface prote |

| | | | | | |
|-----|----|-----|------|----------|---------------------|
| 30 | 13 | 2.9 | 1635 | 2 T14075 | chitinase (EC 3.2. |
| 31 | 13 | 2.9 | 1671 | 2 S71628 | sensory transducti |
| 32 | 13 | 2.9 | 1737 | 2 A59235 | unconventional myo |
| 33 | 13 | 2.9 | 1858 | 2 T18273 | 1-phosphatidylinos |
| 34 | 12 | 2.7 | 183 | 2 S05358 | hypothetical prote |
| 35 | 12 | 2.7 | 342 | 2 T29557 | hypothetical prote |
| 36 | 12 | 2.7 | 458 | 2 T31631 | hypothetical prote |
| 37 | 12 | 2.7 | 477 | 2 A54843 | nemo, form 1 - fru |
| 38 | 12 | 2.7 | 524 | 2 S33640 | homeotic protein s |
| 39 | 12 | 2.7 | 530 | 2 T32812 | hypothetical prote |
| 40 | 12 | 2.7 | 559 | 2 B36307 | alkaline phosphata |
| 41 | 12 | 2.7 | 680 | 2 T19939 | hypothetical prote |
| 42 | 12 | 2.7 | 681 | 2 T23454 | hypothetical prote |
| 43 | 12 | 2.7 | 698 | 2 A54796 | regulatory protein |
| 44 | 12 | 2.7 | 802 | 2 A36910 | xylanase, beta(1,3 |
| 45 | 12 | 2.7 | 825 | 2 T29634 | hypothetical prote |
| 46 | 12 | 2.7 | 1002 | 2 T30546 | major surface glyco |
| 47 | 12 | 2.7 | 3712 | 2 S18253 | laminin alpha-1 ch |
| 48 | 12 | 2.7 | 4377 | 2 A55575 | ankyrin 3, long sp |
| 49 | 11 | 2.5 | 139 | 2 D86417 | probable auxin-ind |
| 50 | 11 | 2.5 | 164 | 2 T26561 | hypothetical prote |
| 51 | 11 | 2.5 | 166 | 2 C90029 | hypothetical prote |
| 52 | 11 | 2.5 | 208 | 2 T46896 | merozoite surface |
| 53 | 11 | 2.5 | 234 | 2 T26560 | hypothetical prote |
| 54 | 11 | 2.5 | 263 | 2 S01360 | salivary glue prot |
| 55 | 11 | 2.5 | 373 | 2 T29596 | hypothetical prote |
| 56 | 11 | 2.5 | 385 | 2 JC7783 | hypothetical prote |
| 57 | 11 | 2.5 | 415 | 2 T32467 | hypothetical prote |
| 58 | 11 | 2.5 | 484 | 2 S58868 | G protein-coupled |
| 59 | 11 | 2.5 | 525 | 2 A35596 | nuclear pore glyco |
| 60 | 11 | 2.5 | 526 | 2 A56573 | nuclear pore compl |
| 61 | 11 | 2.5 | 558 | 2 A98199 | translocated intim |
| 62 | 11 | 2.5 | 558 | 2 E86045 | probable transloca |
| 63 | 11 | 2.5 | 569 | 2 S47277 | gp88 protein - mur |
| 64 | 11 | 2.5 | 649 | 2 T24505 | hypothetical prote |
| 65 | 11 | 2.5 | 662 | 2 A45155 | mucin FIN-C.1 - Af |
| 66 | 11 | 2.5 | 732 | 2 T25337 | hypothetical prote |
| 67 | 11 | 2.5 | 770 | 2 T22808 | hypothetical prote |
| 68 | 11 | 2.5 | 816 | 2 C69493 | hypothetical prote |
| 69 | 11 | 2.5 | 977 | 2 T16232 | 1-phosphatidylinos |
| 70 | 11 | 2.5 | 1093 | 2 T18275 | hypothetical prote |
| 71 | 11 | 2.5 | 1271 | 2 D64237 | hypothetical prote |
| 72 | 10 | 2.3 | 127 | 2 T51538 | nitrlase associat |
| 73 | 10 | 2.3 | 219 | 2 T51382 | achaete-scute homo |
| 74 | 10 | 2.3 | 232 | 2 A60095 | larval glue protei |
| 75 | 10 | 2.3 | 307 | 1 GSFF3 | salivary glue prot |
| 76 | 10 | 2.3 | 388 | 2 T16861 | hypothetical prote |
| 77 | 10 | 2.3 | 390 | 2 T49619 | hypothetical prote |
| 78 | 10 | 2.3 | 393 | 2 B86189 | protein f2SN20.9 [|
| 79 | 10 | 2.3 | 395 | 2 T45599 | hypothetical prote |
| 80 | 10 | 2.3 | 435 | 2 T25350 | hypothetical prote |
| 81 | 10 | 2.3 | 468 | 2 A55476 | protein kinase (EC |
| 82 | 10 | 2.3 | 572 | 2 T16865 | hypothetical prote |
| 83 | 10 | 2.3 | 577 | 2 G89430 | protein K0282.3 li |
| 84 | 10 | 2.3 | 645 | 2 T29818 | hypothetical prote |
| 85 | 10 | 2.3 | 648 | 1 JQ1150 | protein kinase (EC |
| 86 | 10 | 2.3 | 712 | 1 T46031 | gelatinase B (EC 3 |
| 87 | 10 | 2.3 | 876 | 2 T49801 | hypothetical prote |
| 88 | 10 | 2.3 | 947 | 2 T08605 | hypothetical prote |
| 89 | 10 | 2.3 | 1008 | 2 T30544 | major surface glyco |
| 90 | 10 | 2.3 | 1017 | 2 T30542 | major surface glyco |
| 91 | 10 | 2.3 | 1022 | 2 T30542 | major surface glyco |
| 92 | 10 | 2.3 | 1030 | 2 T18374 | B-cell receptor pr |
| 93 | 10 | 2.3 | 1047 | 2 A55617 | masquerade precurs |
| 94 | 10 | 2.3 | 1089 | 2 T14576 | nosa protein - ali |
| 95 | 10 | 2.3 | 1137 | 2 A33507 | hypothetical prote |
| 96 | 10 | 2.3 | 1390 | 2 T14004 | trfA protein - ali |
| 97 | 10 | 2.3 | 1513 | 2 T23681 | hypothetical prote |
| 98 | 10 | 2.3 | 1603 | 2 S17983 | gene posterior sex |
| 99 | 9 | 2.0 | 109 | 1 R6UTP1 | acidic ribosomal p |
| 100 | 9 | 2.0 | 124 | 2 T48833 | hypothetical prote |
| 101 | 9 | 2.0 | 136 | 2 A56062 | Alu RNA-binding pr |
| 102 | 9 | 2.0 | 136 | 2 S34196 | signal recognition |

103 9 2.0 165 2 B87702 ribosomal protein
104 9 2.0 167 2 T33602 hypothetical prote
105 9 2.0 172 2 S35568 sex-determining pr
106 9 2.0 184 2 S77928 exoskeletal protei
107 9 2.0 187 2 T49491 hypothetical prote
108 9 2.0 195 2 T19617 hypothetical prote
109 9 2.0 202 2 F86755 prophage p12 prote
110 9 2.0 209 2 JC4244 heat-shock 27K pro
111 9 2.0 213 2 T23865 hypothetical prote
112 9 2.0 327 2 T49514 hypothetical prote
113 9 2.0 371 2 S20075 promastigote surfa
114 9 2.0 372 2 T41193 L-ascorbate peroxi
115 9 2.0 384 2 A41146 syndecan-3 - chick
116 9 2.0 394 2 T20633 hypothetical prote
117 9 2.0 422 2 T49513 gastrin mucin rela
118 9 2.0 427 2 A23272 female-specific do
119 9 2.0 444 2 T09474 forkhead protein F
120 9 2.0 457 2 I55976 dihydroilpoamide S
121 9 2.0 479 2 T03293 probable phosphodi
122 9 2.0 492 2 A41907 methyl-CpG-binding
123 9 2.0 500 1 BPF zip protein precur
124 9 2.0 503 2 E87101 probable membrane
125 9 2.0 521 2 T49355 related to protein
126 9 2.0 549 2 B32372 male-specific doub
127 9 2.0 555 2 S21766 dihydroilpoamide S
128 9 2.0 594 2 D84859 probable MAP kinas
129 9 2.0 708 2 T29669 hypothetical prote
130 9 2.0 712 2 S18325 guanylate cyclase,
131 9 2.0 761 2 T15912 hypothetical prote
132 9 2.0 788 2 S05661 muscarinic acetyl
133 9 2.0 1014 2 T18759 hypothetical prote
134 9 2.0 1272 2 T30248 fragile X mental r
135 9 2.0 1335 2 T18289 racGAP protein - s
136 9 2.0 1408 2 S16148 gene serrate prote
137 9 2.0 1510 2 T33100 hypothetical prote
138 9 2.0 1570 2 T18272 1-phosphatidylinos
139 9 2.0 1733 1 B45344 probable nuclear a
140 9 2.0 1920 2 T13893 gene hindsight pro
141 9 2.0 3672 2 T23433 hypothetical prote
142 9 2.0 3704 2 T37316 probable laminin a
143 9 2.0 3828 2 T13857 trithorax protein
144 8 1.8 29 2 I52628 low affinity nerve
145 8 1.8 33 2 A05162 antifreeze protein u
146 8 1.8 40 2 S58853 homeotic protein
147 8 1.8 45 2 P00593 tyrosine 3-monooxy
148 8 1.8 45 2 P00592 tyrosine 3-monooxy
149 8 1.8 45 2 P00591 tyrosine 3-monooxy
150 8 1.8 65 2 S19568 parsin, ovary-matu

ALIGNMENTS

RESULT 1
T26880
hypothetical protein Y43F8C.9 - Caenorhabditis elegans
A;Species: Caenorhabditis elegans
C;Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 09-Jul-2004
C;Accession: T26880
R;Ainscough, R.
submitted to the EMBL Data Library, October 1998
A;Reference number: Z20279
A;Accession: T26880
A;Status: preliminary; translated from GB/EMBL/DDBJ
A;Molecule type: DNA
A;Residues: 1-108 <WIL>
A;Cross-references: UNIPROT:Q9XWNO; EMBL:AL032637; PIDN:CAA21621.1; CESP:Y43F8C.9
A;Experimental source: clone Y43F8C
C;Genetics:
A;Gene: CESP:Y43F8C.9
A;Introns: 40/3

Query Match 3.4%; Score 15; DB 2; Length 108;

Best Local Similarity 100.0%; Pred. No. 3.4e-06;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 339 PPTTTTTTTTTTTTTT 353
DB 48 PPTTTTTTTTTTTTTT 62
RESULT 2
S20074
promastigote surface antigen P2 (clone 4.6) precursor - Leishmania major (fragment)
C;Species: Leishmania major
C;Date: 13-Jan-1995 #sequence_revision 06-Feb-1998 #text_change 09-Jul-2004
C;Accession: S20074; D41710
R;Murray, P.J.; Spithill, T.W.
J. Biol. Chem. 266, 24477-24484, 1991
A;Title: Variants of a Leishmania surface antigen derived from a multigenic family.
A;Reference number: A41710; MUID:92105105; PMID:1761547
A;Accession: S20074
A;Molecule type: mRNA
A;Residues: 1-327 <MUR>
A;Cross-references: UNIPROT:Q25334; EMBL:X57135; NID:g9582; PID:g9583
C;Keywords: blocked carboxyl end; Glycoprotein; lipoprotein; phosphatidylinositol linkage
F;1-299/Product: promastigote surface antigen P2 (fragment) #status predicted <PSA>
F;300-327/Domain: carboxyl-terminal propeptide #status predicted <CTP>
F;299/Modified site: GPI-anchor ethanolamine amidated carboxyl end (Asp) (in mature form)
Query Match 3.4%; Score 15; DB 2; Length 327;
Best Local Similarity 100.0%; Pred. No. 8.7e-06;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 339 PPTTTTTTTTTTTTTT 353
DB 183 PPTTTTTTTTTTTTTT 197
RESULT 3
T15922
hypothetical protein EED8.11 - Caenorhabditis elegans
C;Species: Caenorhabditis elegans
C;Date: 20-Sep-1999 #sequence_revision 20-Sep-1999 #text_change 09-Jul-2004
C;Accession: T15922
R;Chisoe, S.
submitted to the EMBL Data Library, July 1995
A;Description: The sequence of C. elegans cosmid EED8.
A;Reference number: Z18428
A;Accession: T15922
A;Status: preliminary; translated from GB/EMBL/DDBJ
A;Molecule type: DNA
A;Residues: 1-304 <CHI>
A;Cross-references: UNIPROT:Q09300; EMBL:U23484; NID:g733597; PID:g733608; PIDN:AAC46771
A;Experimental source: strain Bristol N2
C;Genetics:
A;Gene: CESP:EED8.11
A;Introns: 27/1; 242/2
Query Match 3.2%; Score 14; DB 2; Length 304;
Best Local Similarity 100.0%; Pred. No. 6.9e-05;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 340 PTTTITTTTTTTTTTT 353
DB 67 PTTTITTTTTTTTTTT 80
RESULT 4
T02498
probable WRKY-type DNA binding protein At2g38470 [imported] - Arabidopsis thaliana
N;Alternate names: hypothetical protein T19C21.4
C;Species: Arabidopsis thaliana (mouse-ear cress)
C;Date: 05-Mar-1999 #sequence_revision 05-Mar-1999 #text_change 09-Jul-2004
C;Accession: T02498; D84805
R;Rounsley, S.D.; Lin, X.; Ketchum, K.A.; Crosby, M.L.; Brandon, R.C.; Sykes, S.M.; Kaul,

submitted to the EMBL Data Library, August 1998
A;Description: Arabidopsis thaliana chromosome II BAC T19C21 genomic sequence.
A;Reference number: Z14676
A;Accession: T02498
A;Status: translated from GB/EMBL/DBJ
A;Molecule type: DNA
A;Residues: 1-512 <ROU>
A;Cross-references: UNIPROT:Q858P5; EMBL:AC004683; NID:g3395421; PID:g3395425
A;Experimental source: cultivar Columbia
R;Lin, X.; Kaul, S.; Rounsley, S.D.; Shea, T.P.; Benito, M.I.; Town, C.D.; Fujii, C.Y.;
M.; Koo, H.; Moffat, K.S.; Cronin, L.A.; Shen, M.; VanAken, S.E.; Umayam, L.; Tallon, L.;
euss, D.; Nierman, W.C.; White, O.; Eissen, J.A.; Salzberg, S.L.; Fraser, C.M.; Venter, J.
Nature 402, 761-768, 1999
A;Title: Sequence and analysis of chromosome 2 of the plant Arabidopsis thaliana.
A;Reference number: A84420; MUID:20083487; PMID:10617197
A;Accession: D84805
A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-512 <STO>
A;Cross-references: GB:AE002093; NID:g6598471; PIDN:AA067339.2; GSPDB:GN00139
C;Genetics:
A;Gene: At2g38470; T19C21.4
A;Map position: 2
A;Introns: 74/3; 143/3; 321/2; 375/2

Query Match 3.2%; Score 14; DB 2; Length 512;
Best Local Similarity 100.0%; Pred. No. 0.00011;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 340 TTTTITTTTTTTT 353
DB 122 TTTTITTTTTTTT 135

RESULT 5
S19252
1-aminocyclopropane-1-carboxylate synthase (EC 4.4.1.14) - clove pink
C;Species: Dianthus caryophyllus (clove pink)
C;Date: 13-Jan-1995 #sequence_revision 13-Jan-1995 #text_change 09-Jul-2004
C;Accession: S19252
R;Park, K.Y.; Drory, A.; Woodson, W.R.
Plant Mol. Biol. 18, 377-386, 1992
A;Title: Molecular cloning of an 1-aminocyclopropane-1-carboxylate synthase from senesci
A;Reference number: S19252; MUID:92119258; PMID:1731995
A;Accession: S19252
A;Status: preliminary
A;Molecule type: mRNA
A;Residues: 1-516 <PAR>
A;Cross-references: UNIPROT:P27486; EMBL:M66619
C;Superfamily: 1-aminocyclopropane-1-carboxylate synthase
C;Keywords: carbon-sulfur lyase; ethylene biosynthesis; phosphoprotein; pyridoxal phosph
F;276/Binding site: pyridoxal phosphate (Lys) (covalent) #status predicted

Query Match 3.2%; Score 14; DB 2; Length 516;
Best Local Similarity 100.0%; Pred. No. 0.00011;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 341 TTTTITTTTTTTT 354
DB 457 TTTTITTTTTTTT 470

RESULT 6
S31442
1-aminocyclopropane-1-carboxylate synthase (EC 4.4.1.14) - clove pink
C;Species: Dianthus caryophyllus (clove pink)
C;Date: 02-Dec-1993 #sequence_revision 10-Nov-1995 #text_change 09-Jul-2004
C;Accession: S31442
R;Michael, M.Z.
submitted to the EMBL Data Library, December 1992
A;Description: Isolation of petal senescence-associated cDNA clones encoding 1-aminocycl
A;Reference number: S31442
A;Accession: S31442

A;Molecule type: mRNA
A;Residues: 1-518 <MIC>
A;Cross-references: UNIPROT:Q43753; EMBL:Z18952; NID:g18319; PIDN:CAA79477.1; PID:g18320
C;Superfamily: 1-aminocyclopropane-1-carboxylate synthase
C;Keywords: carbon-sulfur lyase; ethylene biosynthesis; phosphoprotein; pyridoxal phosph
F;278/Binding site: pyridoxal phosphate (Lys) (covalent) #status predicted

Query Match 3.2%; Score 14; DB 2; Length 518;
Best Local Similarity 100.0%; Pred. No. 0.00011;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 341 TTTTITTTTTTTT 354
DB 459 TTTTITTTTTTTT 472

RESULT 7
A35679
rep protein - slime mold (Dictyostelium discoideum) plasmid Ddp2
C;Species: Dictyostelium discoideum
C;Date: 28-Sep-1990 #sequence_revision 28-Sep-1990 #text_change 09-Jul-2004
C;Accession: A35679; S14202; S15811
R;Leiting, B.; Lindner, I.J.; Noegel, A.A.
Mol. Cell. Biol. 10, 3727-3736, 1990
A;Title: The extrachromosomal replication of Dictyostelium plasmid Ddp2 requires a cis-a
A;Reference number: A35679; MUID:90287164; PMID:2192261
A;Accession: A35679
A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-889 <LEI>
A;Cross-references: UNIPROT:Q23895; GB:M55298; NID:g167727; PIDN:AAA33191.1; PID:g167728
R;Slade, M.B.; Chang, A.C.M.; Williams, K.L.
Plasmid 24, 195-207, 1990
A;Title: The sequence and organization of Ddp2, a high-copy-number nuclear plasmid of D
A;Reference number: S14202; MUID:91172902; PMID:2077544
A;Accession: S14202
A;Molecule type: DNA
A;Residues: 1-141, 'I', 143-780, 'E', 782-885, 'GY' <SLA1>
A;Cross-references: EMBL:X51478
R;Slade, M.B.
submitted to the EMBL Data Library, January 1990
A;Reference number: S15811
A;Accession: S15811
A;Molecule type: DNA
A;Residues: 1-141, 'I', 143-353, 'A', 355-780, 'E', 782-885, 'GY' <SLA2>
A;Cross-references: EMBL:X51478; NID:g7307; PIDN:CAA35843.1; PID:g7308
C;Genetics:
A;Gene: rep
A;Genome: plasmid

Query Match 3.2%; Score 14; DB 2; Length 889;
Best Local Similarity 100.0%; Pred. No. 0.00017;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 340 TTTTITTTTTTTT 353
DB 250 TTTTITTTTTTTT 263

RESULT 8
T31113
mucin-like glycoprotein 900 - Cryptosporidium parvum
C;Species: Cryptosporidium parvum
C;Date: 22-Oct-1999 #sequence_revision 22-Oct-1999 #text_change 09-Jul-2004
C;Accession: T31113
R;Barnes, D.A.; Bonnin, A.; Huang, J.X.; Gousses, L.; Wu, J.; Gut, J.; Doyle, P.; Dubren
Mol. Biochem. Parasitol. 96, 93-110, 1998
A;Title: A novel multi-domain mucin-like glycoprotein of Cryptosporidium parvum mediat
A;Reference number: Z20989; MUID:99066935; PMID:9851610
A;Accession: T31113
A;Status: preliminary; translated from GB/EMBL/DBJ
A;Molecule type: DNA
A;Residues: 1-1832 <BAR>

A;Cross-references: UNIPROT:O96503; EMBL:AF068065; NID:G4063041; PID:G4063042; PIDN:AAC9

Query Match 3.2%; Score 14; DB 2; Length 1832;
Best Local Similarity 100.0%; Pred. No. 0.00031;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 340 PTTTTTTTTTTTTT 353
|||||
Db 373 PTTTTTTTTTTTTT 386

RESULT 9
B56888
alkaline phosphatase (EC 3.1.3.1), intestinal type II - rat (fragment)
C;Species: Rattus norvegicus (Norway rat)
C;Date: 05-Jan-1996 #sequence_revision 05-Jan-1996 #text_change 16-Aug-2004
C;Accession: B56888
R;Engle, M.J.; Alpers, D.H.
Clin. Chem. 38, 2505-2509, 1992
A;Title: The two mRNAs encoding rat intestinal alkaline phosphatase represent two distinct
A;Reference number: A56888; MUID:93092310; PMID:1458592
A;Accession: B56888
A;Status: preliminary
A;Molecule type: mRNA
A;Residues: 1-67 <ENG>
A;Experimental source: duodenal mucosa
A;Note: sequence extracted from NCBI backbone (NCBIN:121249, NCBIP:121252)
C;Superfamily: Alkaline phosphatase
C;Keywords: intestine; membrane protein; phosphoric monoester hydrolase

Query Match 2.9%; Score 13; DB 2; Length 67;
Best Local Similarity 100.0%; Pred. No. 0.00016;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 341 TTTTTTTTTTTTTT 353
|||||
Db 27 TTTTTTTTTTTTTT 39

RESULT 10
S01358
salivary glue protein sgs-3 precursor - fruit fly (Drosophila simulans)
C;Species: Drosophila simulans
C;Date: 30-Sep-1989 #sequence_revision 30-Sep-1989 #text_change 09-Jul-2004
C;Accession: S01358; A25988
R;Martin, C.H.; Mayeda, C.A.; Meyerowitz, E.M.
J. Mol. Biol. 201, 273-287, 1988
A;Title: Evolution and expression of the Sgs-3 glue gene of Drosophila.
A;Reference number: S01358; MUID:88332966; PMID:3138416
A;Accession: S01358
A;Status: not compared with conceptual translation
A;Molecule type: DNA
A;Residues: 1-217 <NAR>
A;Cross-references: UNIPROT:P13729
C;Genetics:
A;Gene: Sgs-3
A;Cross-references: FlyBase:FBgn0012853
C;Superfamily: salivary glue protein
F;1-23/Domain: signal sequence #status predicted <SIG>
F;24-217/Product: salivary glue protein sgs-3 #status predicted <MAT>

Query Match 2.9%; Score 13; DB 2; Length 217;
Best Local Similarity 100.0%; Pred. No. 0.00044;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 341 TTTTTTTTTTTTTT 353
|||||
Db 49 TTTTTTTTTTTTTT 61

RESULT 11
T26868
hypothetical protein Y43F8C.5 - Caenorhabditis elegans

A;Cross-references: UNIPROT:O9XWF2; EMBL:AL032637; PIDN:CAA21609.1; CESP:Y43F8C.5
C;Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 09-Jul-2004
C;Accession: T26868
R;Ainscough, R.
submitted to the EMBL Data Library, October 1998
A;Reference number: Z20279
A;Accession: T26868
A;Status: preliminary; translated from GB/EMBL/DDBJ
A;Molecule type: DNA
A;Residues: 1-245 <WIL>
A;Cross-references: UNIPROT:Q9XWF2; EMBL:AL032637; PIDN:CAA21609.1; CESP:Y43F8C.5
A;Experimental source: clone Y43F8C
C;Genetics:
A;Gene: CESP:Y43F8C.5
A;Introns: 69/3; 163/2

Query Match 2.9%; Score 13; DB 2; Length 245;
Best Local Similarity 100.0%; Pred. No. 0.00048;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 339 PTTTTTTTTTTTTT 351
|||||
Db 197 PTTTTTTTTTTTTT 209

RESULT 12
A45632
merozoite surface antigen 2 - malaria parasite (Plasmodium falciparum)
C;Species: Plasmodium falciparum
C;Date: 22-Apr-1993 #sequence_revision 18-Nov-1994 #text_change 09-Jul-2004
C;Accession: A45632
R;Marshall, V.M.; Coppel, R.L.; Anders, R.F.; Kemp, D.J.
Mol. Biochem. Parasitol. 50, 181-184, 1992
A;Title: Two novel alleles within subfamilies of the merozoite surface antigen 2 (MSA-2)
A;Reference number: A45632; MUID:92178286; PMID:1542312
A;Contents: KF1916
A;Accession: A45632
A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-274 <NAR>
A;Cross-references: UNIPROT:P50497; GB:M73810; NID:G160484; PID:G160485
A;Note: sequence extracted from NCBI backbone (NCBIN:85252, NCBIP:85257)
C;Superfamily: Epstein-Barr virus nuclear antigen
C;Keywords: surface antigen

Query Match 2.9%; Score 13; DB 2; Length 274;
Best Local Similarity 100.0%; Pred. No. 0.00053;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 341 TTTTTTTTTTTTTT 353
|||||
Db 97 TTTTTTTTTTTTTT 109

RESULT 13
S39310
merozoite surface antigen - malaria parasite (Plasmodium falciparum)
C;Species: Plasmodium falciparum
C;Date: 06-Jan-1995 #sequence_revision 06-Jan-1995 #text_change 09-Jul-2004
C;Accession: S39310
R;Ramamoji, R.; Ranasinghe, C.
submitted to the EMBL Data Library, November 1993
A;Description: Cycle ds DNA sequencing of a malaria parasite protein from infected blood
A;Reference number: S39310
A;Accession: S39310
A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-278 <RAM>
A;Cross-references: UNIPROT:Q25862; EMBL:X76087; NID:G434996; PID:G836639
C;Superfamily: Epstein-Barr virus nuclear antigen
C;Keywords: surface antigen

Query Match 2.9%; Score 13; DB 2; Length 278;

Best Local Similarity 100.0%; Pred. No. 0.00054; Mismatches 0; Indels 0; Gaps 0;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 341 TTTT TTTT TTTT TTTT 353
Db 101 TTTT TTTT TTTT TTTT 113

RESULT 14
T22023
hypothetical protein F40E10.5 - Caenorhabditis elegans
C;Species: Caenorhabditis elegans
C;Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 09-Jul-2004
C;Accession: T22023
R;Smye, R.
submitted to the EMBL Data Library, February 1996
A;Reference number: Z19503
A;Accession: T22023
A;Status: preliminary; translated from GB/EMBL/DBJ
A;Molecule type: DNA
A;Residues: 1-284 <WIL>
A;Cross-references: UNIPROT:Q20202; EMBL:Z69792; PIDN:CAA93666.1; GSPDB:GN00028; CESP:F40E10
A;Experimental source: clone F40E10
C;Genetics:
A;Gene: CESP:F40E10.5
A;Map position: X
A;Introns: 34/3; 76/2; 141/3; 183/3; 240/3

Query Match 2.9%; Score 13; DB 2; Length 284;
Best Local Similarity 100.0%; Pred. No. 0.00055; Mismatches 0; Indels 0; Gaps 0;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 341 TTTT TTTT TTTT TTTT 353
Db 214 TTTT TTTT TTTT TTTT 226

RESULT 15
T32949
hypothetical protein C05G6.3 - Caenorhabditis elegans
C;Species: Caenorhabditis elegans
C;Date: 29-Oct-1999 #sequence_revision 29-Oct-1999 #text_change 29-Oct-1999
C;Accession: T32949
R;Kemp, K.
submitted to the EMBL Data Library, February 1998
A;Description: The sequence of C. elegans cosmid C05G6.
A;Reference number: Z21252
A;Accession: T32949
A;Status: preliminary; translated from GB/EMBL/DBJ
A;Molecule type: DNA
A;Residues: 1-341 <KEM>
A;Cross-references: EMBL:AF045635; PIDN:AAC02556.1; GSPDB:GN00022; CESP:C05G6.3
A;Experimental source: strain Bristol N2; clone C05G6
C;Genetics:
A;Gene: CESP:C05G6.3
A;Map position: 4
A;Introns: 52/2; 110/1; 151/3; 195/1; 254/3; 295/3

Query Match 2.9%; Score 13; DB 2; Length 341;
Best Local Similarity 100.0%; Pred. No. 0.00064; Mismatches 0; Indels 0; Gaps 0;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 341 TTTT TTTT TTTT TTTT 353
Db 91 TTTT TTTT TTTT TTTT 103

RESULT 16
T20658
probable zinc metalloproteinase F09E8.6 - Caenorhabditis elegans
C;Species: Caenorhabditis elegans
C;Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 09-Jul-2004
C;Accession: T20658

R;Percy, C.
submitted to the EMBL Data Library, May 1996
A;Reference number: Z19307
A;Accession: T20658
A;Status: preliminary; translated from GB/EMBL/DBJ
A;Molecule type: DNA
A;Residues: 1-517 <WIL>
A;Cross-references: UNIPROT:Q19269; EMBL:Z73896; PIDN:CAA98057.1; GSPDB:GN00022; CESP:F09E8.6
A;Experimental source: clone F09E8
C;Genetics:
A;Gene: CESP:F09E8.6
A;Map position: 4
A;Introns: 40/1; 110/3; 141/2; 219/3; 393/1
C;Superfamily: probable zinc metalloproteinase T04G9.2

Query Match 2.9%; Score 13; DB 2; Length 517;
Best Local Similarity 100.0%; Pred. No. 0.00091; Mismatches 0; Indels 0; Gaps 0;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 341 TTTT TTTT TTTT TTTT 353
Db 334 TTTT TTTT TTTT TTTT 346

RESULT 17
T23739
hypothetical protein M106.2 - Caenorhabditis elegans
C;Species: Caenorhabditis elegans
C;Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 09-Jul-2004
C;Accession: T23739
R;Palmer, S.
submitted to the EMBL Data Library, December 1994
A;Reference number: Z19792
A;Accession: T23739
A;Status: preliminary; translated from GB/EMBL/DBJ
A;Molecule type: DNA
A;Residues: 1-519 <WIL>
A;Cross-references: UNIPROT:Q09592; EMBL:Z46935; PIDN:CAA87049.1; GSPDB:GN00020; CESP:M106.2
A;Experimental source: clone M106
C;Genetics:
A;Gene: CESP:M106.2
A;Map position: 2
A;Introns: 47/2; 110/3; 185/2; 231/2; 270/2; 321/2; 347/3; 411/3; 452/3
C;Superfamily: Caenorhabditis elegans hypothetical protein M106.2

Query Match 2.9%; Score 13; DB 2; Length 519;
Best Local Similarity 100.0%; Pred. No. 0.00091; Mismatches 0; Indels 0; Gaps 0;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 341 TTTT TTTT TTTT TTTT 353
Db 502 TTTT TTTT TTTT TTTT 514

RESULT 18
S18408
alkaline phosphatase (EC 3.1.3.1) - rat
N;Alternate names: phytase
C;Species: Rattus norvegicus (Norway rat)
C;Date: 22-Nov-1993 #sequence_revision 10-Nov-1995 #text_change 09-Jul-2004
C;Accession: S18408; S17576
R;Strom, M.; Krisinger, J.; DeLuca, H.F.
Biochim. Biophys. Acta 1090, 299-304, 1991
A;Title: Isolation of a mRNA that encodes a putative intestinal alkaline phosphatase reg
A;Reference number: S18408; MUID:92062729; PMID:1954251
A;Accession: S18408
A;Status: preliminary
A;Molecule type: mRNA
A;Residues: 1-551 <STR>
A;Cross-references: UNIPROT:P51740
A;Note: the correct sequence of residues 144-160 is shown in Fig. 2; the corresponding c
R;Yang, W.J.; Matsuda, Y.; Sano, S.; Masutani, H.; Nakagawa, H.
Biochim. Biophys. Acta 1075, 75-82, 1991

A;Title: Purification and characterization of phytase from rat intestinal mucosa.
A;Reference number: S17576; MUID:91370007; PMID:1654110
A;Accession: S17576
A;Molecule type: protein
A;Residues: 20-29 <YAN>
A;Note: 10-Val was also found
C;Superfamily: alkaline phosphatase
C;Keywords: phosphoric monoester hydrolase

Query Match 2.9%; Score 13; DB 2; Length 551;
Best Local Similarity 100.0%; Pred. No. 0.00096;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 341 TTTT TTTT TTTT TTTT 353
|||||
Db 511 TTTT TTTT TTTT TTTT 523

RESULT 19

T32661
hypothetical protein K11D12.1 - Caenorhabditis elegans
C;Species: Caenorhabditis elegans
C;Date: 29-Oct-1999 #sequence_revision 29-Oct-1999 #text_change 29-Oct-1999
C;Accession: T32661
R;Henkhaus, J.; Wohldmann, P.; Gillam, B.
submitted to the EMBL Data Library, December 1997

A;Description: The sequence of C. elegans cosmid K11D12.
A;Reference number: Z21207
A;Accession: T32661

A;Status: preliminary; translated from GB/EMBL/DBJ
A;Molecule type: DNA

A;Residues: 1-560 <HEN>

A;Cross-references: EMBL:AF039047; PIDN:AAB94223.1; GSPDB:GN00023; CESP:K11D12.1

A;Experimental source: Strain Bristol N2; clone K11D12

C;Genetics:

A;Gene: CESP:K11D12.1

A;Map position: 5

A;Introns: 5/3; 48/3; 90/3; 127/3; 149/3; 190/1; 207/1; 233/3; 264/1; 480/1

Query Match 2.9%; Score 13; DB 2; Length 560;
Best Local Similarity 100.0%; Pred. No. 0.00097;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 341 TTTT TTTT TTTT TTTT 353
|||||
Db 345 TTTT TTTT TTTT TTTT 357

RESULT 20

T21175

hypothetical protein F55D12.5 - Caenorhabditis elegans

C;Species: Caenorhabditis elegans

C;Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 09-Jul-2004

C;Accession: T21175; T22735

R;McMurray, A.

submitted to the EMBL Data Library, June 1996

A;Reference number: Z19385

A;Accession: T21175

A;Status: preliminary; translated from GB/EMBL/DBJ

A;Molecule type: DNA

A;Residues: 1-651 <WIL>

A;Cross-references: UNIPROT:Q19659; EMBL:Z75538; PIDN:CAA99842.1; GSPDB:GN00019; CESP:F5

A;Experimental source: clone F20G4

R;McMurray, A.

submitted to the EMBL Data Library, June 1996

A;Reference number: Z19606

A;Accession: T22735

A;Status: preliminary; translated from GB/EMBL/DBJ

A;Molecule type: DNA

A;Residues: 1-651 <W12>

A;Cross-references: EMBL:Z75542; PIDN:CAA99864.1; GSPDB:GN00019; CESP:F55D12.5

A;Experimental source: clone F55D12

C;Genetics:

A;Gene: CESP:F55D12.5
A;Map position: 1
A;Introns: 29/2; 54/3; 93/3; 180/2; 236/1; 264/2; 471/3; 486/3; 583/3

Query Match 2.9%; Score 13; DB 2; Length 651;
Best Local Similarity 100.0%; Pred. No. 0.0011;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 341 TTTT TTTT TTTT TTTT 353
|||||
Db 513 TTTT TTTT TTTT TTTT 525

RESULT 21

S51592

XynB precursor - Ruminococcus flavefaciens

C;Species: Ruminococcus flavefaciens

C;Date: 15-Jul-1995 #sequence_revision 01-Sep-1995 #text_change 09-Jul-2004

C;Accession: S51592

R;Zhang, J.X.; Martin, J.; Flint, H.J.

Mol. Gen. Genet. 245, 260-264, 1994

A;Title: Identification of non-catalytic conserved regions in xylanases encoded by the xyl

A;Reference number: S51592; MUID:95115675; PMID:7816035

A;Accession: S51592

A;Status: preliminary

A;Molecule type: DNA

A;Residues: 1-781 <ZHA>

A;Cross-references: UNIPROT:Q52753; EMBL:Z35236; NID:g516273; PIDN:CAA84537.1; PID:g5162

F;42-239/Domain: endo-1,4-beta-xylanase homology <XYL>

F;258-401/Domain: Thermotoga xylanase A amino-terminal repeat homology <TXA>

Query Match 2.9%; Score 13; DB 2; Length 781;
Best Local Similarity 100.0%; Pred. No. 0.0013;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 341 TTTT TTTT TTTT TTTT 353
|||||
Db 672 TTTT TTTT TTTT TTTT 684

RESULT 22

T08611

hypothetical protein DocA - slime mold (Dictyostelium discoideum)

C;Species: Dictyostelium discoideum

C;Date: 11-Jun-1999 #sequence_revision 11-Jun-1999 #text_change 09-Jul-2004

C;Accession: T08611

R;Aubry, L.; Firtel, R.A.; Iranfar, N.

submitted to the EMBL Data Library, August 1997

A;Reference number: Z16456

A;Accession: T08611

A;Status: preliminary; translated from GB/EMBL/DBJ

A;Molecule type: mRNA

A;Residues: 1-831 <AUB>

A;Cross-references: UNIPROT:O15756; EMBL:AF020409; NID:g2425146; PID:g2425147

A;Experimental source: strain AX4

C;Genetics:

A;Gene: docA

Query Match 2.9%; Score 13; DB 2; Length 831;
Best Local Similarity 100.0%; Pred. No. 0.0014;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 341 TTTT TTTT TTTT TTTT 353
|||||
Db 7 TTTT TTTT TTTT 19

RESULT 23

T08606

protein phosphatase 2C-like protein Spalten - slime mold (Dictyostelium discoideum)

C;Species: Dictyostelium discoideum

C;Date: 11-Jun-1999 #sequence_revision 11-Jun-1999 #text_change 09-Jul-2004

C;Accession: T08606

R;Aubry, L.; Firtel, R.A.
submitted to the EMBL Data Library, August 1997
A:Reference number: Z16454
A:Accession: J08606
A>Status: translated from GB/EMBL/DBJ
A:Molecule type: mRNA
A:Residues: 1-975 <AUB>
A:Cross-references: UNIPROT:O15743; EMBL:AF019985; NID:g2425120; PID:g2425121
A:Experimental source: strain AX3
C:Genetics:
A:Gene: spnA

Query Match 2.9%; Score 13; DB 2; Length 975;
Best Local Similarity 100.0%; Pred. No. 0.0015;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 340 TTTT TTTT TTTT TTTT 352
|||||
Db 560 TTTT TTTT TTTT TTTT 572

RESULT 24
S12519
glutactin - fruit fly (Drosophila melanogaster)
C:Species: Drosophila melanogaster
C>Date: 19-Mar-1997 #sequence_revision 25-Apr-1997 #text_change 09-Jul-2004
C:Accession: S12519
R;Olson, P.F.; Fessler, L.I.; Nelson, R.E.; Sterne, R.E.; Campbell, A.G.; Fessler, J.H.
EMBO J. 9, 1219-1227, 1990
A:Title: Glutactin, a novel Drosophila basement membrane-related glycoprotein with sequence homology to the human laminin alpha 5 chain
A:Reference number: S12519; MUID:90214632; PMID:2108864
A:Accession: S12519
A>Status: preliminary
A:Molecule type: DNA
A:Residues: 1-1023 <OLS>
A:Cross-references: UNIPROT:P33438; EMBL:X53286; NID:g297084; PIDN:CAA37380.1; PID:g297084
C:Genetics:
A:Introns: 390/3

Query Match 2.9%; Score 13; DB 2; Length 1023;
Best Local Similarity 100.0%; Pred. No. 0.0016;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 341 TTTT TTTT TTTT TTTT 353
|||||
Db 603 TTTT TTTT TTTT TTTT 615

RESULT 25
JC2217
major surface glycoprotein 5 - Pneumocystis carinii
C:Species: Pneumocystis carinii
C>Date: 28-Aug-1985 #sequence_revision 07-Oct-1994 #text_change 09-Jul-2004
C:Accession: JC2217
R;Kitada, K.; Wada, M.; Nakamura, Y.
DNA Res. 1, 57-66, 1994
A:Title: Multi-gene family of major surface glycoproteins of Pneumocystis carinii: full-length cDNA clones and their expression in transgenic mice
A:Reference number: JC2217; MUID:96051981; PMID:7584029
A:Accession: JC2217
A:Molecule type: mRNA
A:Residues: 1-1076 <KIT>
A:Cross-references: UNIPROT:Q01830; DBJ:D21827; NID:g425784; PIDN:BAA04851.1; PID:d10051
C:Superfamily: Pneumocystis carinii major surface glycoprotein MSG100
C:Keywords: Glycoprotein
F:245, 471, 574, 804, 837/Binding site: carbohydrate (Asn) (covalent) #status predicted

Query Match 2.9%; Score 13; DB 2; Length 1076;
Best Local Similarity 100.0%; Pred. No. 0.0017;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 341 TTTT TTTT TTTT TTTT 353
|||||
Db 951 TTTT TTTT TTTT TTTT 963

RESULT 26

JC2300
cell surface glycoprotein MSG100 - Pneumocystis carinii
C:Species: Pneumocystis carinii
C>Date: 06-Jan-1995 #sequence_revision 06-Jan-1995 #text_change 09-Jul-2004
C:Accession: JC2300
R;Wada, M.; Nakamura, Y.
DNA Res. 1, 163-168, 1994
A:Title: MSG gene cluster encoding major cell surface glycoproteins of rat Pneumocystis carinii
A:Reference number: JC2299; MUID:96051989; PMID:8535973
A:Accession: JC2300
A:Molecule type: DNA
A:Residues: 1-1083 <WAD>
A:Cross-references: UNIPROT:Q12075; GB:D31909; GB:D17441; NID:g559718; PIDN:BAA06705.1; PID:g559718
C:Genetics:
A:Gene: MSG100
C:Superfamily: Pneumocystis carinii major surface glycoprotein MSG100
C:Keywords: glycoprotein

Query Match 2.9%; Score 13; DB 2; Length 1083;
Best Local Similarity 100.0%; Pred. No. 0.0017;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 341 TTTT TTTT TTTT TTTT 353
|||||
Db 959 TTTT TTTT TTTT TTTT 971

RESULT 27

T18257
phospholipase C - yeast (Candida albicans)
C:Species: Candida albicans
C>Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 09-Jul-2004
C:Accession: T18257
R;Bennett, D.E.; McCreary, C.E.; Coleman, D.C.
Microbiology 144, 55-72, 1998
A:Title: Genetic characterization of a phospholipase C gene from Candida albicans: presence of a conserved catalytic domain
A:Reference number: T18844; MUID:98129081; PMID:9467900
A:Accession: T18257
A>Status: preliminary; translated from GB/EMBL/DBJ
A:Molecule type: DNA
A:Residues: 1-1099 <BEN>
A:Cross-references: UNIPROT:O13433; EMBL:Y13975; NID:g2462981; PIDN:CAA74308.1; PID:g2462981
C:Genetics:
A:Gene: PLC1
F:566-726/Domain: 1-phosphatidylinositol-4,5-bisphosphate phosphodiesterase domain X homology

Query Match 2.9%; Score 13; DB 2; Length 1099;
Best Local Similarity 100.0%; Pred. No. 0.0017;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 341 TTTT TTTT TTTT TTTT 353
|||||
Db 746 TTTT TTTT TTTT TTTT 758

RESULT 28

JE0120
glycoprotein A - mouse
C:Species: Mus musculus (house mouse)
C>Date: 02-Jun-1998 #sequence_revision 10-Jul-1998 #text_change 15-Jun-2001
C:Accession: JE0120
R;Haidaris, C.G.; Medzhradsky, O.F.; Gigliotti, F.; Simpson-Haidaris, P.J.
DNA Res. 5, 77-85, 1998
A:Title: Molecular characterization of mouse Pneumocystis carinii surface glycoprotein A
A:Reference number: JE0120; MUID:98344138; PMID:9679195
A:Accession: JE0120
A:Molecule type: mRNA
A:Residues: 1-1282 <HAI>
A:Cross-references: GB:AF143102
C:Comment: This protein is a surface antigen of pneumonia.

C;Superfamily: Pneumocystis carinii major surface glycoprotein MSG100
C;Keywords: glycoprotein
F;248,612,717,779,1063/Binding site: carbohydrate (Asn) (covalent) #status predicted

Query Match 2.9%; Score 13; DB 2; Length 1282;
Best Local Similarity 100.0%; Pred. No. 0.0019;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 341 TTTT TTTT TTTT TTTT 353
DB 1158 TTTT TTTT TTTT TTTT 1170

RESULT 29
T17456
cell surface protein DTFA - slime mold (Dictyostelium discoideum)
C;Species: Dictyostelium discoideum
C;Date: 09-Jun-2000 #sequence_revision 09-Jun-2000 #text_change 09-Jul-2004
C;Accession: T17456
R;Ginger, R.S.; Drury, L.; Baader, C.; Zhukovskaya, N.V.; Williams, J.G.
Development 125, 3343-3352, 1998
A;Title: A novel Dictyostelium cell surface protein important for both cell adhesion and
A;Reference number: Z18798; MUID:98359946; PMID:9693138
A;Accession: T17456
A;Status: preliminary; translated from GB/EMBL/DDBJ
A;Molecule type: DNA
A;Residues: 1-1402 <GIN>
A;Cross-references: UNIPROT:O96668; EMBL:AF102575; NID:g4063398; PID:g4063399; PIDN:AA88
A;Experimental source: strain AX2
C;Genetics:
A;Gene: dtfa
C;Function:
A;Description: involved in the cell adhesion and cell sorting

Query Match 2.9%; Score 13; DB 2; Length 1402;
Best Local Similarity 100.0%; Pred. No. 0.0021;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 341 TTTT TTTT TTTT TTTT 353
DB 74 TTTT TTTT TTTT TTTT 86

RESULT 30
T14075
chitinase (EC 3.2.1.14) - yellow fever mosquito
C;Species: Aedes aegypti (yellow fever mosquito)
C;Date: 20-Sep-1999 #sequence_revision 20-Sep-1999 #text_change 09-Jul-2004
C;Accession: T14075
R;de la Vega, H.; Specht, C.A.; Liu, Y.; Robbins, P.W.
Insect Mol. Biol. 7, 233-239, 1997
A;Title: Chitinases are a multi-gene family in Aedes, Anopheles, and Drosophila.
A;Reference number: Z17872
A;Accession: T14075
A;Status: preliminary; translated from GB/EMBL/DDBJ
A;Molecule type: DNA
A;Residues: 1-1635
A;Cross-references: UNIPROT:O17412; EMBL:AF026492; NID:g2564720; PID:g2564721; PIDN:AA88
C;Genetics:
A;Gene: CHT2
A;Introns: 462/3; 524/3; 618/1; 951/3; 1151/2
C;Keywords: glycosidase; hydrolase; polysaccharide degradation

Query Match 2.9%; Score 13; DB 2; Length 1635;
Best Local Similarity 100.0%; Pred. No. 0.0024;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 341 TTTT TTTT TTTT TTTT 353
DB 217 TTTT TTTT TTTT TTTT 229

RESULT 31
T18273
1-phosphatidylinositol 3-kinase (EC 2.7.1.137) 2 - slime mold (Dictyostelium discoideum)

S71628
sensory transduction histidine kinase doka - slime mold (Dictyostelium discoideum)
C;Species: Dictyostelium discoideum
C;Date: 27-Nov-1997 #sequence_revision 12-Dec-1997 #text_change 09-Jul-2004
C;Accession: S71628; S78068
R;Schuster, S.C.; Noegel, A.A.; Oehme, F.; Gerisch, G.; Simon, M.I.
EMBO J. 15, 3880-3889, 1996
A;Title: The hybrid histidine kinase Doka is part of the osmotic response system of Dicty
A;Reference number: S71628; MUID:96324396; PMID:8670893
A;Accession: S71628
A;Status: nucleic acid sequence not shown
A;Molecule type: DNA
A;Residues: 1-1670 <SCH>
A;Cross-references: UNIPROT:Q23901; EMBL:X96869
A;Experimental source: strain AX2; substrain 214
R;Schuster, S.C.; Noegel, A.A.; Oehme, F.; Gerisch, G.; Simon, M.I.
submitted to the EMBL Data Library, March 1996
A;Description: The hybrid histidine kinase Doka is part of the osmotic response system of
A;Reference number: S78068
A;Accession: S78068
A;Molecule type: DNA
A;Residues: 1-149, 'E', 151-219, 'TVLVKLIQSTNNWIYV', 238-1671 <SCW>
A;Cross-references: EMBL:X96869; NID:gl237201; PIDN:CAA65612.1; PID:gl237202
C;Genetics:
A;Gene: doka
C;Function:
A;Description: modulates cell response to changes in osmolarity; involved in spore format
C;Keywords: phosphoprotein; signal transduction
F;1520-1629/Domain: response regulator homology <RRH2>
F;1568/Binding site: phosphate (Asp) (covalent) #status predicted

Query Match 2.9%; Score 13; DB 2; Length 1671;
Best Local Similarity 100.0%; Pred. No. 0.0024;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 341 TTTT TTTT TTTT TTTT 353
DB 399 TTTT TTTT TTTT TTTT 411

RESULT 32
A59235
unconventional myosin heavy chain MyoM - slime mold (Dictyostelium discoideum)
C;Species: Dictyostelium discoideum
C;Date: 19-May-2000 #sequence_revision 19-May-2000 #text_change 09-Jul-2004
C;Accession: A59235
R;Geiseler, H.; Schwarz, E.C.; Soldati, T.
submitted to Genbank, September 1998
A;Description: Identification of two novel and highly divergent myosins in Dictyostelium
A;Reference number: A59235
A;Accession: A59235
A;Status: preliminary; not compared with conceptual translation
A;Molecule type: mRNA
A;Residues: 1-1737 <GEI>
A;Cross-references: UNIPROT:O9TW28; GB:AF090533; NID:gs5714395; PIDN:AAD47903.1; PID:gs5714
A;Experimental source: strain AX2
C;Genetics:
A;Gene: myoM
A;Map position: 6, aldB-cabA2
F;62-874/Domain: myosin motor domain homology #status atypical <MMO>

Query Match 2.9%; Score 13; DB 2; Length 1737;
Best Local Similarity 100.0%; Pred. No. 0.0025;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 341 TTTT TTTT TTTT TTTT 353
DB 1053 TTTT TTTT TTTT TTTT 1065

RESULT 33
T18273
1-phosphatidylinositol 3-kinase (EC 2.7.1.137) 2 - slime mold (Dictyostelium discoideum)

C;Species: Dictyostelium discoideum
 C;Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 09-Jul-2004
 C;Accession: T18273
 R;Zhou, K.; Takegawa, K.; Emr, S.D.; Firtel, R.A.
 Mol. Cell. Biol. 15, 5645-5656, 1995
 A;Title: A phosphatidylinositol (PI) kinase gene family in Dictyostelium discoideum: Bic
 A;Reference number: Z06411
 A;Accession: T18273
 A;Status: preliminary; translated from GB/EMBL/DBJ
 A;Molecule type: mRNA
 A;Residues: 1-1858 <ZHO>
 A;Cross-references: UNIPROT:P54674; EMBL:U23477; NID:g733521; PID:g733522; PIDN:AAA85722
 C;Genetics:
 A;Gene: PIK2
 C;Keywords: phosphotransferase

Query Match 2.7%; Score 13; DB 2; Length 1858;
 Best Local Similarity 100.0%; Pred. No. 0.0027;
 Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 341 TTTT TTTT TTTT TTTT 353
 Db 715 TTTT TTTT TTTT TTTT 727

RESULT 34
 S05358
 hypothetical protein (clone AAC1) - slime mold (Dictyostelium discoideum) (fragment)
 C;Species: Dictyostelium discoideum
 C;Date: 31-Mar-1990 #sequence_revision 31-Mar-1990 #text_change 09-Jul-2004
 C;Accession: S05358
 R;Shaw, D.R.; Richter, H.; Giorda, R.; Ohmachi, T.; Ennis, H.L.
 Mol. Gen. Genet. 218, 453-459, 1989
 A;Title: Nucleotide sequences of Dictyostelium discoideum developmentally regulated cDNA
 A;Reference number: S05355; MUID:90066348; PMID:2511421
 A;Accession: S05358
 A;Molecule type: mRNA
 A;Residues: 1-183 <SHA>
 A;Cross-references: UNIPROT:P14195; EMBL:X16525; NID:g7172; PIDN:CAA34532.1; PID:g930011

Query Match 2.7%; Score 12; DB 2; Length 183;
 Best Local Similarity 100.0%; Pred. No. 0.0032;
 Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 341 TTTT TTTT TTTT TTTT 352
 Db 34 TTTT TTTT TTTT 45

RESULT 35
 T29557
 hypothetical protein C16D9.1 - Caenorhabditis elegans
 C;Species: Caenorhabditis elegans
 C;Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 09-Jul-2004
 C;Accession: T29557
 R;Gattung, S.; Le, T.T.
 submitted to the EMBL Data Library, July 1996
 A;Description: The sequence of C. elegans cosmid C16D9.
 A;Reference number: Z20640
 A;Accession: T29557
 A;Status: preliminary; translated from GB/EMBL/DBJ
 A;Molecule type: DNA
 A;Residues: 1-342 <GAT>
 A;Cross-references: UNIPROT:Q22902; EMBL:U64858; PIDN:AAB18288.1; GSPDB:GN000023; CESP:C1
 A;Experimental source: strain Bristol N2; clone C16D9
 C;Genetics:
 A;Gene: CESP:C16D9.1
 A;Map position: 5
 A;Introns: 59/2; 316/3

Query Match 2.7%; Score 12; DB 2; Length 342;
 Best Local Similarity 100.0%; Pred. No. 0.0054;
 Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 340 PTTT TTTT TTTT TTTT 351
 Db 275 PTTT TTTT TTTT TTTT 286

RESULT 36

T31631
 hypothetical protein Y57A10A.i - Caenorhabditis elegans
 C;Species: Caenorhabditis elegans
 C;Date: 29-Oct-1999 #sequence_revision 29-Oct-1999 #text_change 09-Jul-2004
 C;Accession: T31631
 R;Smye, R.
 submitted to the EMBL Data Library, September 1999
 A;Reference number: Z21048
 A;Accession: T31631
 A;Status: preliminary; translated from GB/EMBL/DBJ
 A;Molecule type: DNA
 A;Residues: 1-458 <WIL>
 A;Cross-references: UNIPROT:Q9NA83; EMBL:AL117195; NID:e1549729; PIDN:CAB55014.1; CESP:Y.
 A;Experimental source: clone Y57A10A
 C;Genetics:
 A;Gene: CESP:Y57A10A.i
 A;Introns: 8/3; 54/3; 112/3; 151/1

Query Match 2.7%; Score 12; DB 2; Length 458;
 Best Local Similarity 100.0%; Pred. No. 0.0069;
 Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 341 TTTT TTTT TTTT TTTT 352
 Db 134 TTTT TTTT TTTT TTTT 145

RESULT 37

A54843
 nemo, form I - fruit fly (Drosophila melanogaster)
 C;Species: Drosophila melanogaster
 C;Date: 03-Oct-1995 #sequence_revision 03-Oct-1995 #text_change 09-Jul-2004
 C;Accession: A54843
 R;Choi, K.W.; Benzer, S.
 Cell 78, 125-136, 1994
 A;Title: Rotation of photoreceptor clusters in the developing Drosophila eye requires th
 A;Reference number: A54843; MUID:94306509; PMID:8033204
 A;Accession: A54843
 A;Status: preliminary
 A;Molecule type: mRNA
 A;Residues: 1-477 <CHO>
 A;Cross-references: UNIPROT:Q23993; GB:U12009; NID:gs15669; PIDN:AAA21124.1; PID:gs532558
 C;Genetics:

Query Match 2.7%; Score 12; DB 2; Length 477;
 Best Local Similarity 100.0%; Pred. No. 0.0071;
 Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 341 TTTT TTTT TTTT TTTT 352
 Db 421 TTTT TTTT TTTT TTTT 432

RESULT 38

S33640
 homeotic protein smox-2, engrailed-like - fluke (Schistosoma mansoni)
 C;Species: Schistosoma mansoni
 C;Date: 20-Feb-1995 #sequence_revision 20-Feb-1995 #text_change 16-Aug-2004
 C;Accession: S33640; S27841
 R;Webster, P.J.; Mansour, T.E.

Mech. Dev. 38, 25-32, 1992
A/Title: Conserved classes of homeodomains in Schistosoma mansoni, an early bilateral metazoan
A/Reference number: S33640; MUID:92399260; PMID:1356008
A/Accession: S33640
A/Molecule type: mRNA
A/Residues: 1-524 <WEB>
A/Cross-references: UNIPROT:Q26601; EMBL:S44191; EMBL:M85305; NID:g161103; PIDN:AAA29929
C/Genetics:
A/Gene: smox-2
C/Superfamily: homeobox homology
C/Keywords: DNA binding; homeobox; nucleus; transcription regulation
F;424-480/Domain: homeobox homology <HOX>

Query Match 2.7%; Score 12; DB 2; Length 524;
Best Local Similarity 100.0%; Pred. No. 0.0077;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 341 TTTT TTTT TTTT TTTT 352
Db 104 TTTT TTTT TTTT TTTT 115

RESULT 39
T32812
hypothetical protein H17B01.2 - Caenorhabditis elegans
C/Species: Caenorhabditis elegans
C/Date: 29-Oct-1999 #sequence_revision 29-Oct-1999 #text_change 09-Jul-2004
C/Accession: T32812
R;Gatting, S.; Meggi, L.
submitted to the EMBL Data Library, December 1997
A/Description: The sequence of C. elegans cosmid H17B01.
A/Reference number: Z21227
A/Accession: T32812
A/Status: preliminary; translated from GB/EMBL/DBJ
A/Molecule type: DNA
A/Residues: 1-530 <GAT>
A/Cross-references: UNIPROT:O61209; EMBL:AF040646; PIDN:AAB94986.1; GSPDB:GN000020; CESP:
A/Experimental source: strain Bristol N2; clone H17B01
C/Genetics:
A/Gene: CESP:H17B01.2
A/Map position: 2
A/Introns: 42/3; 58/1; 173/3; 268/2; 308/2; 340/1; 364/2; 387/3

Query Match 2.7%; Score 12; DB 2; Length 530;
Best Local Similarity 100.0%; Pred. No. 0.0078;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 341 TTTT TTTT TTTT TTTT 352
Db 292 TTTT TTTT TTTT TTTT 303

RESULT 40
B36307
alkaline phosphatase (EC 3.1.1.3.1), intestinal - mouse
C/Species: Mus musculus (house mouse)
C/Date: 28-Mar-1991 #sequence_revision 28-Mar-1991 #text_change 16-Aug-2004
C/Accession: B36307
R;Manes, T.; Glade, K.; Ziomek, C.A.; Millan, J.L.
Genomics 8, 541-554, 1990
A/Title: Genomic structure and comparison of mouse tissue-specific alkaline phosphatase
A/Reference number: A36307; MUID:91139124; PMID:2286375
A/Accession: B36307
A/Status: preliminary
A/Molecule type: DNA
A/Residues: 1-559 <MAN>
A/Cross-references: UNIPROT:P24822; GB:M61705; NID:g194048; PIDN:AAA37873.1; PID:g194049
C/Superfamily: Alkaline phosphatase
C/Keywords: intestine; phosphoprotein; phosphoric monoester hydrolase

Query Match 2.7%; Score 12; DB 2; Length 559;
Best Local Similarity 100.0%; Pred. No. 0.0081;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 341 TTTT TTTT TTTT TTTT 352
Db 513 TTTT TTTT TTTT TTTT 524

RESULT 41
T19939
hypothetical protein C44H4.3 - Caenorhabditis elegans
C/Species: Caenorhabditis elegans
C/Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 09-Jul-2004
C/Accession: T19939
R;Smye, R.
submitted to the EMBL Data Library, August 1996
A/Reference number: Z19200
A/Accession: T19939
A/Status: preliminary; translated from GB/EMBL/DBJ
A/Molecule type: DNA
A/Residues: 1-680 <WIL>
A/Cross-references: UNIPROT:Q93374; EMBL:Z79598; PIDN:CAB01865.1; GSPDB:GN000028; CESP:C44
A/Experimental source: clone C44H4
C/Genetics:
A/Gene: CESP:C44H4.3
A/Map position: X
A/Introns: 26/3; 74/3; 122/3; 216/3; 364/3; 589/3

Query Match 2.7%; Score 12; DB 2; Length 680;
Best Local Similarity 100.0%; Pred. No. 0.0096;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 341 TTTT TTTT TTTT TTTT 352
Db 463 TTTT TTTT TTTT TTTT 474

RESULT 42
T23454
hypothetical protein K08E3.6 - Caenorhabditis elegans
C/Species: Caenorhabditis elegans
C/Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 09-Jul-2004
C/Accession: T23454
R;McMurray, A.
submitted to the EMBL Data Library, November 1996
A/Reference number: Z19743
A/Accession: T23454
A/Status: preliminary; translated from GB/EMBL/DBJ
A/Molecule type: DNA
A/Residues: 1-681 <WIL>
A/Cross-references: UNIPROT:Q9XUS9; EMBL:Z81568; PIDN:CAB04593.1; GSPDB:GN000021; CESP:K08E3
A/Experimental source: clone K08E3
C/Genetics:
A/Gene: CESP:K08E3.6
A/Map position: 3
A/Introns: 36/1; 73/2; 237/3; 361/3; 612/3

Query Match 2.7%; Score 12; DB 2; Length 681;
Best Local Similarity 100.0%; Pred. No. 0.0096;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 343 TTTT TTTT TTTT TTTT 354
Db 259 TTTT TTTT TTTT TTTT 270

RESULT 43
A54796
regulatory protein CRAC - slime mold (Dictyostelium discoideum)
C/Species: Dictyostelium discoideum
C/Date: 28-Oct-1994 #sequence_revision 28-Oct-1994 #text_change 09-Jul-2004
C/Accession: A54796
R;Insausti, R.; Kuspa, A.; Lilly, P.J.; Shaulsky, G.; Levin, L.R.; Loomis, W.F.; Devreotes, J.
J. Cell Biol. 126, 1537-1545, 1994
A/Title: CRAC, a cytosolic protein containing a pleckstrin homology domain, is required for

A;Reference number: A54796; MUID:94375528; PMID:8089184
A;Accession: A54796
A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-698 <INS>
A;Cross-references: UNIPROT:P35401; GB:U06228; NID:G641960; PIDN:AAA61782.1; PID:G456398
A;Introns: 11/3; 153/1
C;Superfamily: Dictyostelium regulatory protein CRAC

Query Match 2.7%; Score 12; DB 2; Length 698;
Best Local Similarity 100.0%; Pred. No. 0.0098;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 341 TTTT TTTT TTTT TTTT 352
| | | | | | | | | |
Db 352 TTTT TTTT TTTT TTTT 363

RESULT 44
A36910
xylanase, beta(1,3-1,4)-glucanase - Ruminococcus flavefaciens
C;Species: Ruminococcus flavefaciens
C;Date: 07-Apr-1994 #sequence_revision 18-Nov-1994 #text_change 09-Jul-2004
C;Accession: A36910
R;Flint, H.J.; Martin, J.; McPherson, C.A.; Daniel, A.S.; Zhang, J.X.
J. Bacteriol. 175, 2943-2951, 1993
A;Title: A bifunctional enzyme, with separate xylanase and beta(1,3-1,4)-glucanase domains
A;Reference number: A36910; MUID:93259938; PMID:8491715
A;Accession: A36910
A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-802 <FLI>
A;Cross-references: UNIPROT:Q98310; GB:S61204; NID:G385910; PIDN:AAE26620.1; PID:G385911
A;Note: sequence extracted from NCBI backbone (NCBIN:131871, NCBI:P:131872)
F;42-239/Domain: endo-1,4-beta-xylanase homology <XVL>
F;299-401/Domain: Thermotoga xylanase A amino-terminal repeat homology <TXA>

Query Match 2.7%; Score 12; DB 2; Length 802;
Best Local Similarity 100.0%; Pred. No. 0.011;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 341 TTTT TTTT TTTT TTTT 352
| | | | | | | | | |
Db 532 TTTT TTTT TTTT TTTT 543

RESULT 45
T29634
hypothetical protein C12D12.1 - Caenorhabditis elegans
C;Species: Caenorhabditis elegans
C;Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 09-Jul-2004
C;Accession: T29634
R;Nhan, M.; Hawkins, J.
submitted to the EMBL Data Library, March 1996
A;Description: The sequence of C. elegans cosmid C12D12.
A;Reference number: Z20656
A;Accession: T29634
A;Status: preliminary; translated from GB/EMBL/DBJ
A;Molecule type: DNA
A;Residues: 1-825 <NRA>
A;Cross-references: UNIPROT:Q17921; EMBL:U51998; PIDN:AAA96080.1; GSPDB:GN000028; CESP:CL12D12
A;Experimental source: strain Bristol N2; clone C12D12
C;Genetics:
A;Gene: CESP-C12D12.1
A;Map position: X
A;Introns: 48/1; 86/3; 137/1; 172/3; 224/3; 253/1; 287/3; 328/2; 454/1; 487/3; 692/1
C;Superfamily: Epstein-Barr virus membrane antigen gp350

Query Match 2.7%; Score 12; DB 2; Length 825;
Best Local Similarity 100.0%; Pred. No. 0.011;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 341 TTTT TTTT TTTT TTTT 352
| | | | | | | | | |
Db 748 TTTT TTTT TTTT TTTT 759

RESULT 46
T30546
major surface glycoprotein - Pneumocystis carinii (fragment)
C;Species: Pneumocystis carinii
C;Date: 22-Oct-1999 #sequence_revision 22-Oct-1999 #text_change 15-Jun-2001
C;Accession: T30546
R;Mei, Q.; Turner, R.E.; Sorial, V.; Klivington, D.; Angus, C.W.; Kovacs, J.A.
Infect. Immun. 66, 4268-4273, 1998
A;Title: Characterization of major surface glycoprotein genes of human Pneumocystis carinii
A;Reference number: Z17905; MUID:98380374; PMID:9712777
A;Accession: T30546
A;Status: preliminary; translated from GB/EMBL/DBJ
A;Molecule type: DNA
A;Residues: 1-1002 <MEI>
A;Cross-references: EMBL:AF038556; NID:G3560524; PID:G3560526; PIDN:AAC34981.1
A;Experimental source: f.sp. hominis
C;Genetics:
A;Gene: msg3
C;Superfamily: Pneumocystis carinii major surface glycoprotein MSG100

Query Match 2.7%; Score 12; DB 2; Length 1002;
Best Local Similarity 100.0%; Pred. No. 0.013;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 343 TTTT TTTT TTTT TTTT 354
| | | | | | | | | |
Db 902 TTTT TTTT TTTT TTTT 913

RESULT 47
S18253
laminin alpha-1 chain precursor - fruit fly (Drosophila melanogaster)
C;Species: Drosophila melanogaster
C;Date: 16-Sep-1992 #sequence_revision 24-Jul-1997 #text_change 09-Jul-2004
C;Accession: S28399; S18253
R;Kusche-Gullberg, M.; Garrison, K.; Mackrell, A.J.; Fessler, J.H.
EMBO J. 11, 4519-4527, 1992
A;Title: Laminin A chain: expression during Drosophila development and genomic sequence.
A;Reference number: S28399; MUID:93049203; PMID:1425586
A;Accession: S28399
A;Status: preliminary
A;Molecule type: nucleic acid
A;Residues: 1-3712 <KUS>
A;Cross-references: UNIPROT:Q00174; GB:M96388; NID:G157799; PIDN:AAA28662.1; PID:G157800
R;Garrison, K.; Mackrell, A.J.; Fessler, J.H.
J. Biol. Chem. 266, 22899-22904, 1991
A;Title: Drosophila laminin A chain sequence, interspecies comparison, and domain structure
A;Reference number: S18253; MUID:92078147; PMID:1744083
A;Accession: S18253
A;Molecule type: mRNA
A;Residues: 1762-3712 <GAR>
A;Cross-references: EMBL:M75882; NID:G157797; PIDN:AAA28661.1; PID:G157798
C;Genetics:
A;Gene: FlyBase:Lana
A;Cross-references: FlyBase:Fgn0002526
C;Superfamily: laminin alpha-1 chain; laminin G repeat homology; laminin-type EGF-like h
C;Keywords: basement membrane; cell binding; coiled coil; disulfide bond; extracellular
F;273-330/Domain: laminin-type EGF-like homology <LEG>
F;333-400/Domain: laminin-type EGF-like homology <LEG2>
F;541-584/Domain: laminin-type EGF-like homology <LEG1>
F;1776-2115/Domain: III <DOM3>
F;1776-1806/Domain: laminin-type EGF-like homology #status atypical <LE1>
F;1809-1856/Domain: laminin-type EGF-like homology <LE2>
F;1859-1914/Domain: laminin-type EGF-like homology <LE3>
F;1917-1967/Domain: laminin-type EGF-like homology <LE4>
F;1970-2014/Domain: laminin-type EGF-like homology <LE5>
F;2017-2061/Domain: laminin-type EGF-like homology <LE6>
F;2064-2109/Domain: laminin-type EGF-like homology <LE7>

```
F;2116-2697/Domain: I/II, heptad repeats <DOM2>
F;2698-3712/Domain: G <DOMG>
F;2698-2863/Domain: repeat G1 <RG1>
F;2864-3048/Domain: repeat G2 <RG2>
F;3049-3223/Domain: repeat G3 <RG3>
F;3079-3200/Domain: laminin G repeat homology <LG3>
F;3334-3528/Domain: repeat G4 <RG4>
F;3529-3712/Domain: repeat G5 <RG5>
F;1847,1850,1943,2024,2196,2215,2267,2301,2323,2482,2524,2538,2569,2699,2720,2890,2938,3072
Query Match          2.7%; Score 12; DB 2; Length 3712;
Best Local Similarity 100.0%; Pred. No. 0.04;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 340 PTTTTTTTTTTT 351
Db 3272 PTTTTTTTTTTT 3283

RESULT 48
A55575
N;Alternate names: ankyrin G
C;Species: Homo sapiens (man)
C;Date: 03-Mar-1995 #sequence_revision 03-Mar-1995 #text_change 09-Jul-2004
C;Accession: A55575
R;Kordeli, E.; Lambert, S.; Bennett, V.
J. Biol. Chem. 270, 2352-2359, 1995
A;Title: Ankyrin-G. A new ankyrin gene with neural-specific isoforms localized at the ax
A;Reference number: A55575; MUID:95138209; PMID:7836469
A;Accession: A55575
A;Status: preliminary
A;Molecule type: mRNA
A;Residues: 1-4377 <KOR>
A;Cross-references: UNIPROT:Q12955; GB:U13616; NID:G608024; PIDN:AAA64834.1; PID:G608025
C;Genetics:
A;Gene: GDB:ANK3
A;Cross-references: GDB:424503; OMIM:600465
A;Map position: 10q21-10q21
C;Superfamily: unassigned ankyrin repeat proteins; ankyrin repeat homology; EGF homology
C;Keywords: alternative splicing; peripheral membrane protein
F;73-105/Domain: ankyrin repeat homology <AN01>
F;106-138/Domain: ankyrin repeat homology <AN02>
F;139-171/Domain: ankyrin repeat homology <AN03>
F;172-200/Domain: ankyrin repeat homology <AN04>
F;201-233/Domain: ankyrin repeat homology <AN05>
F;234-266/Domain: ankyrin repeat homology <AN06>
F;267-299/Domain: ankyrin repeat homology <AN07>
F;300-332/Domain: ankyrin repeat homology <AN08>
F;333-365/Domain: ankyrin repeat homology <AN09>
F;366-398/Domain: ankyrin repeat homology <AN10>
F;399-431/Domain: ankyrin repeat homology <AN11>
F;432-464/Domain: ankyrin repeat homology <AN12>
F;465-497/Domain: ankyrin repeat homology <AN13>
F;498-530/Domain: ankyrin repeat homology <AN14>
F;531-563/Domain: ankyrin repeat homology <AN15>
F;564-596/Domain: ankyrin repeat homology <AN16>
F;597-629/Domain: ankyrin repeat homology <AN17>
F;630-662/Domain: ankyrin repeat homology <AN18>
F;663-695/Domain: ankyrin repeat homology <AN19>
F;696-728/Domain: ankyrin repeat homology <AN20>
F;729-761/Domain: ankyrin repeat homology <AN21>
F;762-794/Domain: ankyrin repeat homology <AN22>
F;795-827/Domain: ankyrin repeat homology <AN23>

Query Match          2.7%; Score 12; DB 2; Length 4377;
Best Local Similarity 100.0%; Pred. No. 0.046;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 341 TTTTTTTTTTTT 352
Db 3967 TTTTTTTTTTTT 3978
```

RESULT 49

D86417

Probable auxin-induced protein, 50455-50036 [imported] - Arabidopsis thaliana
C;Species: Arabidopsis thaliana (mouse-ear cress)
C;Date: 02-Mar-2001 #sequence_revision 02-Mar-2001 #text_change 09-Jul-2004
C;Accession: D86417

R;Theologis, A.; Ecker, J.R.; Palm, C.J.; Federspiel, N.A.; Kaul, S.; White, O.; Alonso,
Chin, C.W.; Chung, M.K.; Conn, L.; Conway, A.B.; Conway, A.R.; Creasy, T.H.; Dewar, K.;
ansen, N.F.; Hughes, B.; Huizar, L.
Nature 408, 816-820, 2000

A;Authors: Hunter, J.L.; Jenkins, J.; Johnson-Hopson, C.; Khan, S.; Khaykin, E.; Kim, C.;
C.A.; Li, J.H.; Li, Y.; Lin, X.; Liu, S.X.; Liu, Z.A.; Luros, J.S.; Maiti, R.; Marziani,
Rizzo, M.; Rooney, T.; Rowley, D.; Sakano, H.

A;Authors: Salzberg, S.L.; Schwartz, J.R.; Shinn, P.; Southwick, A.M.; Sun, H.; Tallon, I.
ker, M.; Wu, D.; Yu, G.; Fraser, C.M.; Venter, J.C.; Davis, R.W.

A;Title: Sequence and analysis of chromosome 1 of the plant Arabidopsis.

A;Reference number: A86141; MUID:21016719; PMID:11130712

A;Accession: D86417

A;Status: preliminary

A;Molecule type: DNA

A;Residues: 1-139 <STO>

A;Cross-references: UNIPROT:Q9C7Q5; GB:AE005172; NID:gl0092232; PIDN:AG12648.1; GSPDB:G

C;Genetics:

A;Map position: 1

Query Match 2.5%; Score 11; DB 2; Length 139;

Best Local Similarity 100.0%; Pred. No. 0.021;

Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 341 TTTTTTTTTT 351

Db 22 TTTTTTTTTT 32

RESULT 50

T26561

hypothetical protein Y24F12A.d - Caenorhabditis elegans

C;Species: Caenorhabditis elegans

C;Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 08-Sep-2000

C;Accession: T26561

R;Jennard, N.

submitted to the EMBL Data Library, September 1999

A;Reference number: Z20233

A;Accession: T26561

A;Status: preliminary; translated from GB/EMBL/DDB3

A;Molecule type: DNA

A;Residues: 1-164 <WIL>

A;Cross-references: EMBL:AL110480; PIDN:CAB54380.1; CESP:Y24F12A.d

A;Experimental source: clone Y24F12A

C;Genetics:

A;Gene: CESP:Y24F12A.d

A;Introns: 137/1

C;Superfamily: Caenorhabditis elegans hypothetical protein Y9D1A.2

Query Match 2.5%; Score 11; DB 2; Length 164;

Best Local Similarity 100.0%; Pred. No. 0.024;

Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 341 TTTTTTTTTT 351

Db 112 TTTTTTTTTT 122

RESULT 51

C90029

hypothetical protein SA2097 [imported] - Staphylococcus aureus (strain N315)

C;Species: Staphylococcus aureus

C;Date: 10-May-2001 #sequence_revision 10-May-2001 #text_change 09-Jul-2004

C;Accession: C90029

R;Kuroda, M.; Ohta, T.; Uchiyama, I.; Baba, T.; Yuzawa, H.; Kobayashi, I.; Cui, L.; Oguc
ma, A.; Mizutani-Oi, Y.; Kobayashi, N.; Sawano, R.; Inoue, R.; KaiCo, C.; Sekimizu, K.; I
C.; Shiba, T.; Hattori, M.; Ogasawara, N.; Hayashi, H.; Hiramatsu, K.

Lancet 357, 1225-1240, 2001
A;Title: Whole genome sequencing of methicillin-resistant *Staphylococcus aureus*.
A;Reference number: A89758; MUID:21311952; PMID:11418146
A;Accession: C90029
A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-166 <KUR>
A;Cross-references: UNIPROT:Q99RW9; GB:BA000018; PID:gl3702104; PIDN:BA43396.1; GSPDB:C
A;Experimental source: strain N315
C;Genetics:
A;Gene: SA2097

Query Match 2.5%; Score 11; DB 2; Length 166;
Best Local Similarity 100.0%; Pred. No. 0.025;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 341 TTTT TTTT TTTT 351
Db 44 TTTT TTTT TTTT 54

RESULT 52
T46896
merozoite surface antigen 2 [imported] - malaria parasite (*Plasmodium falciparum*) (fragm
C;Species: *Plasmodium falciparum*
C;Date: 17-Mar-2000 #sequence_revision 17-Mar-2000 #text_change 09-Jul-2004
C;Accession: T46896
R;Prescott, N.; Stowers, A.W.; Cheng, Q.; Bobogare, A.; Rzepczyk, C.M.; Saul, A.
Mol. Biochem. Parasitol. 63, 203-212, 1994
A;Title: *Plasmodium falciparum* genetic diversity can be characterized using the polymorp
A;Reference number: Z24128; MUID:94277144; PMID:8008018
A;Accession: T46896
A;Status: preliminary; translated from GB/EMBL/DBJ
A;Molecule type: DNA
A;Residues: 1-208 <PRE>
A;Cross-references: UNIPROT:Q25949; EMBL:L19048; NID:G438839; PIDN:AAC37195.1; PID:G4388
C;Genetics:
A;Gene: MSA-2
A;Map position: 2
C;Superfamily: Epstein-Barr virus nuclear antigen

Query Match 2.5%; Score 11; DB 2; Length 208;
Best Local Similarity 100.0%; Pred. No. 0.03;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 341 TTTT TTTT TTTT 351
Db 99 TTTT TTTT TTTT 109

RESULT 53
T26560
hypothetical protein Y24F12A.c - *Caenorhabditis elegans*
C;Species: *Caenorhabditis elegans*
C;Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 08-Sep-2000
C;Accession: T26560
R;Lennard, N.
submitted to the EMBL Data Library, September 1999
A;Reference number: Z20233
A;Accession: T26560
A;Status: preliminary; translated from GB/EMBL/DBJ
A;Molecule type: DNA
A;Residues: 1-234 <WIL>
A;Cross-references: EMBL:AL110480; NID:e1542182; PIDN:CAB54379.1; CESP:Y24F12A.c
A;Experimental source: clone Y24F12A
C;Genetics:
A;Gene: CESP:Y24F12A.c
A;Introns: 12/2; 55/1; 200/1
C;Superfamily: *Caenorhabditis elegans* hypothetical protein Y9D1A.2

Query Match 2.5%; Score 11; DB 2; Length 234;
Best Local Similarity 100.0%; Pred. No. 0.033;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 341 TTTT TTTT TTTT 351
Db 175 TTTT TTTT TTTT 185

RESULT 54
S01360
salivary glue protein sgs-3 precursor - fruit fly (*Drosophila yakuba*)
C;Species: *Drosophila yakuba*
C;Date: 30-Sep-1989 #sequence_revision 30-Sep-1989 #text_change 09-Jul-2004
C;Accession: S01360; C25988
R;Martin, C.H.; Mayeda, C.A.; Meyerowitz, E.M.
J. Mol. Biol. 201, 273-287, 1988
A;Title: Evolution and expression of the sgs-3 glue gene of *Drosophila*.
A;Reference number: S01358; MUID:88332966; PMID:3138416
A;Accession: S01360
A;Status: not compared with conceptual translation
A;Molecule type: DNA
A;Residues: 1-263 <MAR>
A;Cross-references: UNIPROT:P13728
C;Genetics:
A;Gene: sgs-3
A;Cross-references: FlyBase:FBgn0013172
C;Superfamily: salivary glue protein
F;1-23/Domain: signal sequence #status predicted <SIG>
F;24-263/Product: salivary glue protein sgs-3 #status predicted <MAT>

Query Match 2.5%; Score 11; DB 2; Length 263;
Best Local Similarity 100.0%; Pred. No. 0.036;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 340 PTTT TTTT TTTT 350
Db 96 PTTT TTTT TTTT 106

RESULT 55
T29596
hypothetical protein C04G6.2 - *Caenorhabditis elegans*
C;Species: *Caenorhabditis elegans*
C;Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 15-Oct-1999
C;Accession: T29596
R;Anderson, K.; Chisoe, S.
submitted to the EMBL Data Library, April 1996
A;Description: The sequence of *C. elegans* cosmid C04G6.
A;Reference number: Z20648
A;Accession: T29596
A;Status: preliminary; translated from GB/EMBL/DBJ
A;Molecule type: DNA
A;Residues: 1-373 <AND>
A;Cross-references: EMBL:U55854; PIDN:AAA98013.1; GSPDB:GN00020; CESP:C04G6.2
A;Experimental source: strain Bristol N2; clone C04G6
C;Genetics:
A;Gene: CESP:C04G6.2
A;Map position: 2
A;Introns: 33/3; 85/3; 143/1; 179/1; 226/2; 263/1; 310/2

Query Match 2.5%; Score 11; DB 2; Length 373;
Best Local Similarity 100.0%; Pred. No. 0.049;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 341 TTTT TTTT TTTT 351
Db 156 TTTT TTTT TTTT 166

RESULT 56
JC7783
RAD 23B protein - channel catfish
C;Species: *Ictalurus punctatus* (channel catfish)
C;Date: 02-Apr-2002 #sequence_revision 02-Apr-2002 #text_change 09-Jul-2004
C;Accession: JC7783

R;Liu, Z.; Li, P.; Kocabas, A.; Karsi, A.; Ju, Z.
 Biochem. Biophys. Res. Commun. 289, 317-324, 2001
 A;Title: Microsatellite-containing genes from the channel catfish brain: Evidence of tri
 A;Reference number: JC7783
 A;Contents: Brain
 A;Accession: JC7783
 A;Molecule type: mRNA
 A;Residues: 1-385 <LIU>
 A;Cross-references: UNIPROT:Q7LZR8
 C;Comment: This protein with a polythreonine tract, has importance in the nucleotide exc
 C;Genetics:
 A;Gene: rad23b
 A;Introns: 76/3

Query Match 2.5%; Score 11; DB 2; Length 385;
 Best Local Similarity 100.0%; Pred. No. 0.05;
 Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 341 TTTTITTTTTTT 351
 Db 114 TTTTITTTTTTT 124

RESULT 57
 T32467
 hypothetical protein F52G3.5 - Caenorhabditis elegans
 C;Species: Caenorhabditis elegans
 C;Date: 29-Oct-1999 #sequence_revision 29-Oct-1999 #text_change 09-Jul-2004
 C;Accession: T32467
 R;Blanchard, M.; Gattung, S.; Sansone, J.
 submitted to the EMBL Data Library, September 1997
 A;Description: The sequence of C. elegans cosmid F52G3.
 A;Reference number: Z21173
 A;Accession: T32467
 A;Status: preliminary; translated from GB/EMBL/DBDJ
 A;Molecule type: DNA
 A;Residues: 1-415 <BLA>
 A;Cross-references: UNIPROT:Q9GZH9; EMBL:AF026212; PIDN:AAB71300.1; GSPDB:GN00028; CESP:
 A;Experimental source: strain Bristol N2; clone F52G3
 C;Genetics:
 A;Gene: CESP:F52G3.5
 A;Map position: X
 A;Introns: 31/1; 49/1; 104/1; 117/1; 220/1; 241/2; 307/1; 370/3

Query Match 2.5%; Score 11; DB 2; Length 415;
 Best Local Similarity 100.0%; Pred. No. 0.053;
 Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 341 TTTTITTTTTTT 351
 Db 203 TTTTITTTTTTT 213

RESULT 58
 S58868
 G protein-coupled receptor GCR1 - migratory locust
 C;Species: Locusta migratoria (migratory locust)
 C;Date: 15-Feb-1996 #sequence_revision 01-Mar-1996 #text_change 09-Jul-2004
 C;Accession: S58868
 R;Vanden Broeck, J.; Vultsteke, V.; Huybrechts, R.; De Loof, A.
 J. Neurochem. 64, 2387-2395, 1995
 A;Title: Characterization of a cloned locust tyramine receptor cDNA by functional expres
 A;Reference number: S58868; MUID:95279966; PMID:7760020
 A;Accession: S58868
 A;Status: preliminary
 A;Molecule type: mRNA
 A;Residues: 1-484 <VAN>
 A;Cross-references: UNIPROT:Q25321; EMBL:X69520; NID:G871404; PIDN:CAA49268.1; PID:G8714
 A;Accession: S58869
 A;Status: preliminary; nucleic acid sequence not shown; translation not shown
 A;Molecule type: mRNA
 A;Residues: 1-307, 'D', 309-338, 'K', 340-484 <VA2>
 A;Cross-references: EMBL:X69521; NID:G871406; PIDN:CAA49269.1; PID:G871407

A;Note: the nucleotide sequence was submitted to the EMBL Data Library, November 1992
 C;Superfamily: octopamine receptor type I
 C;Keywords: G protein-coupled receptor

Query Match 2.5%; Score 11; DB 2; Length 484;
 Best Local Similarity 100.0%; Pred. No. 0.061;
 Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 341 TTTTITTTTTTT 351
 Db 350 TTTTITTTTTTT 360

RESULT 59

A35596

nuclear pore glycoprotein p62 - rat

C;Species: Rattus norvegicus (Norway rat)

C;Date: 09-Nov-1990 #sequence_revision 09-Nov-1990 #text_change 09-Jul-2004

C;Accession: A35596; A31762; I55336; S11666

R;Starr, C.M.; D'Onofrio, M.; Park, M.K.; Hanover, J.A.

J. Cell Biol. 110, 1861-1871, 1990

A;Title: Primary sequence and heterologous expression of nuclear pore glycoprotein p62.

A;Reference number: A35596; MUID:90277705; PMID:2190987

A;Accession: A35596

A;Status: preliminary

A;Molecule type: mRNA

A;Residues: 1-525 <STA>

A;Cross-references: UNIPROT:P17955; GB:X52583; NID:G57640; PIDN:CAA36813.1; PID:G57641

R;D'Onofrio, M.; Starr, C.M.; Park, M.K.; Holt, G.D.; Haltiwanger, R.S.; Hart, G.W.; Han

Proc. Natl. Acad. Sci. U.S.A. 85, 9595-9599, 1988

A;Title: Partial cDNA sequence encoding a nuclear pore protein modified by O-linked N-ac

A;Reference number: A31762; MUID:89071743; PMID:3200844

A;Accession: A31762

A;Molecule type: mRNA

A;Residues: 370, 'FR', 373-525 <DON>

A;Cross-references: GB:J04143; NID:G623564; PIDN:AAA60741.1; PID:G623565

A;Experimental source: hepatic

R;D'Onofrio, M.; Lee, M.D.; Starr, C.M.; Miller, M.; Hanover, J.A.

J. Biol. Chem. 266, 11980-11985, 1991

A;Title: The gene encoding rat nuclear pore glycoprotein p62 is intronless.

A;Reference number: I55336; MUID:91288076; PMID:2050692

A;Accession: I55336

A;Status: translated from GB/EMBL/DBDJ

A;Molecule type: DNA

A;Residues: 1-525 <RES>

A;Cross-references: GB:M62992; NID:G205953; PIDN:AAA41789.1; PID:G205954

A;Experimental source: hepatic

C;Genetics:

A;Introns: #status absent

C;Keywords: coiled coil; glycoprotein

Query Match 2.5%; Score 11; DB 2; Length 525;
 Best Local Similarity 100.0%; Pred. No. 0.065;
 Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 341 TTTTITTTTTTT 351
 Db 274 TTTTITTTTTTT 284

RESULT 60

A56573

nuclear pore complex glycoprotein p62 - mouse

C;Species: Mus musculus (house mouse)

C;Date: 21-Jul-1995 #sequence_revision 28-Jul-1995 #text_change 09-Jul-2004

C;Accession: A56573

R;Cordes, V.; Waizenegger, I.; Krohne, G.

Eur. J. Cell Biol. 55, 31-47, 1991

A;Title: Nuclear pore complex glycoprotein p62 of Xenopus laevis and mouse: cDNA cloning

A;Reference number: A56573; MUID:92007945; PMID:1915419

A;Accession: A56573

A;Status: preliminary

A;Molecule type: mRNA

A;Residues: 1-526 <COR>
A;Cross-references: UNIPROT:Q63850; GB:S59342; NID:G236260; PIDN:AAB19953.1; PID:G236261
A;Note: sequence extracted from NCBI Backbone (NCBIN:59342, NCBI:P:59343)
C;Comment: The amino end of this protein contains O-linked N-acetylglucosamine additions
C;Keywords: glycoprotein; nuclear membrane; peripheral membrane protein

Query Match 2.5%; Score 11; DB 2; Length 526;
Best Local Similarity 100.0%; Pred. No. 0.065; Mismatches 0; Indels 0; Gaps 0;
Matches 11; Conservative 0

Qy 341 TTTTITTTTTT 351
| | | | |
Db 274 TTTTITTTTTT 284

RESULT 61
A98199
translocated intimin receptor tir [imported] - Escherichia coli (strain O157:H7, substra
C;Species: Escherichia coli
C;Date: 18-Jul-2001 #sequence_revision 18-Jul-2001 #text_change 09-Jul-2004
C;Accession: A98199
R;Hayashi, T.; Makino, K.; Kurokawa, K.; Ishii, K.; Yokoyama, K.; Han, C.G.
gasawara, N.; Yasunaga, T.; Kuhara, S.; Shiba, T.; Hattori, M.; Shinagawa, H.
DNA Res. 8, 11-22, 2001
A;Title: Complete genome sequence of enterohemorrhagic Escherichia coli O157:H7 and gene
A;Reference number: A99629; MUID:21156231; PMID:11258796
A;Accession: A98199
A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-558 <HAY>
A;Cross-references: UNIPROT:Q9R396; GB:BA000007; PIDN:BA837984.1; PID:G13364036; GSPDB:G
A;Experimental source: strain O157:H7, substrain RMD 0509952
C;Genetics:
A;Gene: ECs4561

Query Match 2.5%; Score 11; DB 2; Length 558;
Best Local Similarity 100.0%; Pred. No. 0.068; Mismatches 0; Indels 0; Gaps 0;
Matches 11; Conservative 0

Qy 341 TTTTITTTTTT 351
| | | | |
Db 393 TTTTITTTTTT 403

RESULT 62
E86045
probable translocated intimin receptor protein tir [imported] - Escherichia coli (strain
C;Species: Escherichia coli
C;Date: 16-Feb-2001 #sequence_revision 16-Feb-2001 #text_change 09-Jul-2004
C;Accession: E86045
R;Perna, N.T.; Plunkett III, G.; Burland, V.; Mau, B.; Glasner, J.D.; Rose, D.J.; Mayhew
iller, L.; Grotbeck, E.J.; Davis, N.W.; Lim, A.; Dimalanta, E.; Potamouisis, K.; Apodaca,
Nature 409, 529-533, 2001
A;Title: Genome sequence of enterohemorrhagic Escherichia coli O157:H7.
A;Reference number: A85480; MUID:2107935; PMID:11206551
A;Accession: E86045
A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-558 <STO>
A;Cross-references: UNIPROT:Q9R396; GB:AE005174; NID:G12518449; PIDN:AG58825.1; GSPDB:G
A;Experimental source: strain O157:H7, substrain EDL933
C;Genetics:
A;Gene: tir

Query Match 2.5%; Score 11; DB 2; Length 558;
Best Local Similarity 100.0%; Pred. No. 0.068; Mismatches 0; Indels 0; Gaps 0;
Matches 11; Conservative 0

Qy 341 TTTTITTTTTT 351
| | | | |
Db 393 TTTTITTTTTT 403

RESULT 63
S47277
gp88 protein - murine cytomegalovirus
C;Species: murine cytomegalovirus, murine herpesvirus 1
C;Date: 06-Jan-1995 #sequence_revision 06-Jan-1995 #text_change 09-Jul-2004
C;Accession: S47277
R;Thiele, R.; Lucin, P.; Schneider, K.; Koszinowski, U.
submitted to the EMBL Data Library, February 1994
A;Reference number: S47277
A;Accession: S47277
A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-569 <THA>
A;Cross-references: UNIPROT:Q83183; EMBL:X77798; NID:G535195; PIDN:CAA54825.1; PID:G5351
C;Superfamily: murine cytomegalovirus gp88 protein

Query Match 2.5%; Score 11; DB 2; Length 569;
Best Local Similarity 100.0%; Pred. No. 0.069; Mismatches 0; Indels 0; Gaps 0;
Matches 11; Conservative 0

Qy 341 TTTTITTTTTT 351
| | | | |
Db 473 TTTTITTTTTT 483

RESULT 64
T24505
hypothetical protein T05C12.4 - Caenorhabditis elegans
C;Species: Caenorhabditis elegans
C;Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 09-Jul-2004
C;Accession: T24505
R;Burton, J.
submitted to the EMBL Data Library, October 1995
A;Reference number: Z19901
A;Accession: T24505
A;Status: preliminary; translated from GB/EMBL/DBJ
A;Molecule type: DNA
A;Residues: 1-649 <WIL>
A;Cross-references: UNIPROT:Q22225; EMBL:Z66500; PIDN:CAA91305.1; GSPDB:GN000020; CESP:T:5
A;Experimental source: clone T05C12
C;Genetics:
A;Gene: CESP:T05C12.4
A;Map position: 2
A;Introns: 28/3; 48/3; 103/3; 156/3; 192/3; 249/3; 408/3; 495/3; 623/3
C;Superfamily: Caenorhabditis elegans hypothetical protein T05C12.4

Query Match 2.5%; Score 11; DB 2; Length 649;
Best Local Similarity 100.0%; Pred. No. 0.078; Mismatches 0; Indels 0; Gaps 0;
Matches 11; Conservative 0

Qy 344 TTTTITTTTTT 354
| | | | |
Db 355 TTTTITTTTTT 365

RESULT 65
A45155
mucin FIM-C.1 - African clawed frog (fragment)
C;Species: Xenopus laevis (African clawed frog)
C;Date: 26-May-1994 #sequence_revision 26-May-1994 #text_change 09-Jul-2004
C;Accession: A45155
R;Hauser, P.; Hoffmann, W.
J. Biol. Chem. 267, 24620-24624, 1992
A;Title: P-domains as shuffled cysteine-rich modules in integumentary mucin C.1 (FIM-C.1)
A;Reference number: A45155; MUID:93077556; PMID:1447205
A;Accession: A45155
A;Status: preliminary
A;Molecule type: mRNA
A;Residues: 1-662 <HAU>
A;Cross-references: UNIPROT:Q05049; GB:L02115; NID:G214147; PIDN:AAA74725.1; PID:G951460
F;162-202/Domain: trefoil homology <TRF1>
F;307-347/Domain: trefoil homology <TRF2>
F;354-394/Domain: trefoil homology <TRF3>

F;526-566/Domain: trefoil homology <TRF4>
F;573-613/Domain: trefoil homology <TRF5>
F;621-661/Domain: trefoil homology <TRF6>

Query Match 2.5%; Score 11; DB 2; Length 662;
Best Local Similarity 100.0%; Pred. No. 0.079;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 340 PTTTITTTTTTT 350
|||||

Db 433 PTTTITTTTTTT 443
|||||

RESULT 66

T25937

hypothetical protein ZC13.3 - Caenorhabditis elegans

C;Species: Caenorhabditis elegans

C;Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 09-Jul-2004

C;Accession: T25937

R;Bradshaw, H.

submitted to the EMBL Data Library, August 1996

A;Description: The sequence of C. elegans cosmid ZC13.

A;Reference number: Z20113

A;Accession: T25937

A;Status: preliminary; translated from GB/EMBL/DBDJ

A;Molecule type: DNA

A;Residues: 1-732 <BRA>

A;Cross-references: UNIPROT:Q95Q40; EMBL:U67953; PIDN:AAB07581.1; GSPDB:GN00028; CESP:ZC

C;Genetics:

A;Map position: X

A;Introns: 19/3; 52/2; 86/1; 169/1; 301/1; 365/1; 401/3; 506/2; 528/2; 553/1; 639/1; 663

Query Match

2.5%; Score 11; DB 2; Length 732;

Best Local Similarity 100.0%; Pred. No. 0.086;

Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 341 TTTTITTTTTTT 351

|||||

Db 214 TTTTITTTTTTT 224

RESULT 67

T22808

hypothetical protein F56H9.1 - Caenorhabditis elegans

C;Species: Caenorhabditis elegans

C;Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 09-Jul-2004

C;Accession: T22808

R;Burton, J.

submitted to the EMBL Data Library, June 1996

A;Reference number: Z19618

A;Accession: T22808

A;Status: preliminary; translated from GB/EMBL/DBDJ

A;Molecule type: DNA

A;Residues: 1-770 <WIL>

A;Cross-references: UNIPROT:Q20908; EMBL:Z74473; PIDN:CAA98949.1; GSPDB:GN00023; CESP:FS

C;Genetics:

A;Map position: 5

A;Introns: 235/1; 262/2; 320/1; 367/2; 510/3; 654/1; 681/2

Query Match

2.5%; Score 11; DB 2; Length 770;

Best Local Similarity 100.0%; Pred. No. 0.09;

Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 341 TTTTITTTTTTT 351

|||||

Db 633 TTTTITTTTTTT 643

RESULT 68

C69493

hypothetical protein AF1948 - Archaeoglobus fulgidus

C;Species: Archaeoglobus fulgidus

C;Date: 05-Dec-1997 #sequence_revision 05-Dec-1997 #text_change 09-Jul-2004

C;Accession: C69493

R;Klenk, H.P.; Clayton, R.A.; Tomb, J.F.; White, O.; Nelson, K.E.; Ketchum, K.A.; Dodson,

.; Fleischmann, R.D.; Quackenbush, J.; Lee, N.H.; Sutton, G.G.; Gill, S.; Kirkness, E.F.;

Glodek, A.; Zhou, L.; Overbeek, R.; Gocayne, J.D.; Weidman, J.F.; McDonald, L.

Nature 390, 364-370, 1997

A;Authors: Uterback, T.; Cotton, M.D.; Spriggs, T.; Artiach, P.; Kaine, B.P.; Sykes, S.A.

Smith, H.O.; Woese, C.R.; Venter, J.C.

A;Title: The complete genome sequence of the hyperthermophilic, sulfate-reducing archaeo

A;Reference number: A69250; MUID:98049343; PMID:9389475

A;Accession: C69493

A;Status: preliminary; nucleic acid sequence not shown; translation not shown

A;Molecule type: DNA

A;Residues: 1-816 <KLE>

A;Cross-references: UNIPROT:O28331; GB:AE000968; GB:AE000782; NID:g2689291; PIDN:AAB8930

Query Match

2.5%; Score 11; DB 2; Length 816;

Best Local Similarity 100.0%; Pred. No. 0.094;

Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 340 PTTTITTTTTTT 350

|||||

Db 159 PTTTITTTTTTT 169

RESULT 69

T16232

hypothetical protein F32A5.2 - Caenorhabditis elegans

C;Species: Caenorhabditis elegans

C;Date: 20-Sep-1999 #sequence_revision 20-Sep-1999 #text_change 20-Sep-1999

C;Accession: T16232

R;Pauley, A.

submitted to the EMBL Data Library, July 1995

A;Description: The sequence of C. elegans cosmid F32A5.

A;Reference number: Z18482

A;Accession: T16232

A;Status: preliminary; translated from GB/EMBL/DBDJ

A;Molecule type: DNA

A;Residues: 1-977 <PAU>

A;Cross-references: EMBL:U20864; NID:g669026; PID:g669033; PIDN:AAC46666.1; CESP:F32A5.2

A;Experimental source: strain Bristol N2

C;Genetics:

A;Gene: CESP:F32A5.2

A;Introns: 23/1; 58/3; 102/3; 136/2; 277/2; 380/2; 422/1; 502/1; 580/2; 648/1; 935/2

Query Match

2.5%; Score 11; DB 2; Length 977;

Best Local Similarity 100.0%; Pred. No. 0.11;

Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 338 PPPTTTTTTTTT 348

|||||

Db 357 PPPTTTTTTTTT 367

RESULT 70

T18275

1-phosphatidylinositol 3-kinase (EC 2.7.1.137) 4 - slime mold (Dictyostelium discoideum)

C;Species: Dictyostelium discoideum

C;Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 09-Jul-2004

C;Accession: T18275

R;Zhou, K.; Takegawa, K.; Emr, S.D.; Firtel, R.A.

Mol. Cell. Biol. 15, 5645-5656, 1995

A;Title: A phosphatidylinositol (PI) kinase gene family in Dictyostelium discoideum: Bio

A;Reference number: Z06411

A;Accession: T18275

A;Status: preliminary; translated from GB/EMBL/DBDJ

A;Molecule type: DNA

A;Residues: 1-1093 <ZHO>

A;Cross-references: UNIPROT:P54677; EMBL:U23479; NID:g733527; PID:g733528; PIDN:AAA85725

C;Genetics:

A;Note: PIK4
C;Keywords: phosphotransferase

Query Match 2.5%; Score 11; DB 2; Length 1093;
Best Local Similarity 100.0%; Pred. No. 0.12;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 341 TTTTNTTTTTTT 351
Db 775 TTTTNTTTTTTT 785

RESULT 71

D64237

hypothetical protein MG338 - Mycoplasma genitalium

C;Species: Mycoplasma genitalium
C;Date: 10-Nov-1995 #sequence_revision 10-Nov-1995 #text_change 09-Jul-2004
C;Accession: D64237
R;Fraser, C.M.; Gocayne, J.D.; White, O.; Adams, M.D.; Clayton, R.A.; Fleischmann, R.D.;
M.; Fuhmann, J.; Nguyen, D.; Utterback, T.R.; Saudek, D.M.; Phillips, C.A.; Merrick, J.;
C.A.; Venter, J.C.
Science 270, 397-403, 1995
A;Title: The minimal gene complement of Mycoplasma genitalium.
A;Reference number: A64200; MUID:96026346; PMID:7569993
A;Accession: D64237
A;Status: preliminary; nucleic acid sequence not shown; translation not shown
A;Molecule type: DNA
A;Residues: 1-1271 <TIGR>
C;Cross-references: UNIPROT:P47580; GB:U39716; GB:L43967; NID:g1046037; PID:g1046042; TI
A;Experimental source: strain G-37
C;Genetics:
A;Genetic code: SGC3

Query Match 2.5%; Score 11; DB 2; Length 1271;
Best Local Similarity 100.0%; Pred. No. 0.14;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 341 TTTTNTTTTTTT 351
Db 354 TTTTNTTTTTTT 364

RESULT 72

T51538

nitrilase associated protein-like - Arabidopsis thaliana

N;Alternate names: protein T20K14_210
C;Species: Arabidopsis thaliana (mouse-ear cress)
C;Date: 18-Aug-2000 #sequence_revision 18-Aug-2000 #text_change 09-Jul-2004
C;Accession: T51538
R;Sato, S.; Nakamura, Y.; Kaneko, T.; Kato, T.; Asamizu, E.; Kotani, H.; Tabata, S.; New
submitted to the Protein Sequence Database, August 2000
A;Reference number: Z25394
A;Accession: T51538
A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-127 <SAT>
A;Cross-references: UNIPROT:Q9LUF22; EMBL:AL391143
A;Experimental source: cultivar Columbia; BAC clone T20K14
C;Genetics:
A;Map position: 5
A;Introns: 97/3
A;Note: T20K14_210

Query Match 2.3%; Score 10; DB 2; Length 127;
Best Local Similarity 100.0%; Pred. No. 0.17;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 341 TTTTNTTTTTTT 350
Db 39 TTTTNTTTTTTT 48

RESULT 73

salivary glue protein sgs-3 - fruit fly (Drosophila melanogaster)

C;Species: Drosophila melanogaster
C;Date: 28-May-1986 #sequence_revision 28-May-1986 #text_change 09-Jul-2004

I51382

achaete-scute homolog - chicken

C;Species: Gallus gallus (chicken)
C;Date: 13-Sep-1996 #sequence_revision 13-Sep-1996 #text_change 09-Jul-2004
C;Accession: I51382
R;Jasoni, C.L.; Walker, M.B.; Morris, M.D.; Reh, T.A.
Development 120, 769-783, 1994
A;Title: A chicken achaete-scute homolog (CASH-1) is expressed in a temporally and spatially
A;Reference number: I51382; MUID:95324365; PMID:7600956
A;Accession: I51382
A;Status: preliminary; translated from GE/EMBL/DBJ
A;Molecule type: mRNA
A;Residues: 1-219 <JAS>
A;Cross-references: UNIPROT:Q90575; EMBL:U01339; NID:g401726; PIDN:AAC59658.1; PID:g4017

Query Match 2.3%; Score 10; DB 2; Length 219;
Best Local Similarity 100.0%; Pred. No. 0.26;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 14 AAAAAAAPP 23
Db 28 AAAAAAAPP 37

RESULT 74

A60095

larval glue protein Lgp-1 precursor - fruit fly (Drosophila virilis)

C;Species: Drosophila virilis
C;Date: 03-Mar-1993 #sequence_revision 03-Mar-1993 #text_change 09-Jul-2004
C;Accession: A60095; S50126; S44060
R;Swida, U.; Lucka, L.; Kress, H.
Development 108, 269-280, 1990
A;Title: Glue protein genes in Drosophila virilis: their organization, developmental con-
A;Reference number: A60095; MUID:90276249; PMID:2351069
A;Accession: A60095
A;Molecule type: DNA
A;Residues: 1-232 <SWI>
A;Cross-references: UNIPROT:Q27423; GB:X76203; NID:g433481; PIDN:CAA53796.1; PID:g433482
R;Lanio, W.; Swida, U.; Kress, H.
Biochim. Biophys. Acta 1219, 576-580, 1994
A;Title: Molecular cloning of the Drosophila virilis larval glue protein gene Lgp-3 and
A;Reference number: S50125; MUID:95002181; PMID:7918662
A;Accession: S50126
A;Status: preliminary; nucleic acid sequence not shown; translation not shown
A;Molecule type: DNA
A;Residues: 1-232 <LA2>
A;Cross-references: EMBL:Z29565; NID:g450901; PIDN:CAA82672.1; PID:g450903
A;Note: the nucleotide sequence was submitted to the EMBL Data Library, January 1994
C;Genetics:
A;Gene: FlyBase:Dvir/Lgpl
A;Cross-references: FlyBase:FBgn0010305
A;Map position: X16A
A;Introns: 10/1
C;Superfamily: salivary glue protein
C;Keywords: glycoprotein; salivary gland; tandem repeat
F;1-23/Domain: signal sequence #status predicted <SIG>
F;43-86,94-104/Region: 11-residue repeats (T-T-T-P-C-P-T-T-T-T)
F;105-160/Region: 8-residue repeats (T-T-T-T-R-T-T-T-T-P)

Query Match 2.3%; Score 10; DB 2; Length 232;
Best Local Similarity 100.0%; Pred. No. 0.27;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 340 PTTTTTTTTT 349
Db 60 PTTTTTTTTT 69

RESULT 75

GSFF3

salivary glue protein sgs-3 - fruit fly (Drosophila melanogaster)

C;Species: Drosophila melanogaster
C;Date: 28-May-1986 #sequence_revision 28-May-1986 #text_change 09-Jul-2004

C;Accession: A03329
R;Garfinkel, M.D.; Pruitt, R.E.; Meyerowitz, E.M.
J. Mol. Biol. 168, 765-789, 1983
A;Title: DNA sequences, gene regulation and modular protein evolution in the Drosophila
A;Reference number: A92904; MUID:83294545; PMID:6411930
A;Accession: A03329
A;Molecule type: DNA
A;Residues: 1-307 <GAR>
A;Cross-references: UNIPROT:P02840; GB:X01918; NID:g8581; PIDN:CAA25994.1; PID:g603989
C;Comment: This protein is produced by third-instar larvae.
C;Genetics:
A;Gene: sgs-3
A;Cross-references: FlyBase:FBgn0003373
A;Map position: 3L (68C)
A;Introns: 10/1
C;Superfamily: salivary glue protein
C;Keywords: salivary gland; tandem repeat

Query Match 2.3%; Score 10; DB 1; Length 307;
Best Local Similarity 100.0%; Pred. No. 0.35;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 341 TTTT TTTT TTTT 350
| | | | |
Db 45 TTTT TTTT TTTT 54

Search completed: June 28, 2005, 10:21:26
Job time : 32.5711 secs


```
Best Local Similarity 100.0%; Pred. No. 3.5e-302;
Matches 332; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MASVLPSSGSCAAAAAAPPGLRLRLLLLSAALIPGTGQNLFTKDVTVIEGEVA 60
Db 1 MASVLPSSGSCAAAAAAPPGLRLRLLLLSAALIPGTGQNLFTKDVTVIEGEVA 60
Qy 61 TISQVKNKSDSVTLQNLNPNRQTIYFRDPLKDSRFQNLNFSSELKVSILTNVSI SDEG 120
Db 61 TISQVKNKSDSVTLQNLNPNRQTIYFRDPLKDSRFQNLNFSSELKVSILTNVSI SDEG 120
Qy 121 RYFCOLYTDPPQESYTTITVLVPPRNLMIDIKDTAVEGEEIEVNCCTAMASKPATIRWF 180
Db 121 RYFCOLYTDPPQESYTTITVLVPPRNLMIDIKDTAVEGEEIEVNCCTAMASKPATIRWF 180
Qy 181 KGNTELKKGSEVEWSDMYTVTSQMLKVHKEDDGVPIQVVEHPAVTGNLQRYLEVQ 240
Db 181 KGNTELKKGSEVEWSDMYTVTSQMLKVHKEDDGVPIQVVEHPAVTGNLQRYLEVQ 240
Qy 241 YKPOVHIQMTYPLQGLTREGDALELTCEAIGKQPQVMVTVVRVDDDEMPQHAVLSGPNLFI 300
Db 241 YKPOVHIQMTYPLQGLTREGDALELTCEAIGKQPQVMVTVVRVDDDEMPQHAVLSGPNLFI 300
Qy 301 NNLNKTDNGTYRCEASNIIVGKAHSDYMLYVVD 332
Db 301 NNLNKTDNGTYRCEASNIIVGKAHSDYMLYVVD 332

RESULT 3
Q86WB8 PRELIMINARY; PRT; 333 AA.
ID Q86WB8
AC Q86WB8; 2003 (TReMBLrel. 24, Created)
DT 01-JUN-2003 (TReMBLrel. 24, Last sequence update)
DE 01-MAR-2004 (TReMBLrel. 26, Last annotation update)
DE Secretory isoform of TSLC-1.
GN Name=stSLC-1;
OS Homo sapiens (Human);
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo;
OX NCBI_TaxID=9606;
RN [1]
RP TISSUE=Lung;
RC Ito A., Koma Y., Negano T.;
RL Submitted (OCT-2002) to the EMBL/GenBank/DBJ databases.
DR EMBL; AB094146; BAC66178.1; -.
DR InterPro; IPR007110; Ig-like.
DR InterPro; IPR003598; Ig_c2.
DR Pfam; PF00047; Ig; 2.
DR SMART; SM00408; IGC2; 1.
DR PROSITE; PS00835; IG_LIKE; 3.
SQ SEQUENCE 333 AA; 36915 MW; D7C1102F46D08492 CRC64;

Query Match 74.9%; Score 331; DB 2; Length 333;
Best Local Similarity 100.0%; Pred. No. 2.3e-301;
Matches 331; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MASVLPSSGSCAAAAAAPPGLRLRLLLLSAALIPGTGQNLFTKDVTVIEGEVA 60
Db 1 MASVLPSSGSCAAAAAAPPGLRLRLLLLSAALIPGTGQNLFTKDVTVIEGEVA 60
Qy 61 TISQVKNKSDSVTLQNLNPNRQTIYFRDPLKDSRFQNLNFSSELKVSILTNVSI SDEG 120
Db 61 TISQVKNKSDSVTLQNLNPNRQTIYFRDPLKDSRFQNLNFSSELKVSILTNVSI SDEG 120
Qy 121 RYFCOLYTDPPQESYTTITVLVPPRNLMIDIKDTAVEGEEIEVNCCTAMASKPATIRWF 180
Db 121 RYFCOLYTDPPQESYTTITVLVPPRNLMIDIKDTAVEGEEIEVNCCTAMASKPATIRWF 180
Qy 181 KGNTELKKGSEVEWSDMYTVTSQMLKVHKEDDGVPIQVVEHPAVTGNLQRYLEVQ 240
Db 181 KGNTELKKGSEVEWSDMYTVTSQMLKVHKEDDGVPIQVVEHPAVTGNLQRYLEVQ 240

Best Local Similarity 100.0%; Pred. No. 3.5e-302;
Matches 332; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 241 YKPOVHIQMTYPLQGLTREGDALELTCEAIGKQPQVMVTVVRVDDDEMPQHAVLSGPNLFI 300
Db 241 YKPOVHIQMTYPLQGLTREGDALELTCEAIGKQPQVMVTVVRVDDDEMPQHAVLSGPNLFI 300
Qy 301 NNLNKTDNGTYRCEASNIIVGKAHSDYMLYVY 331
Db 301 NNLNKTDNGTYRCEASNIIVGKAHSDYMLYVY 331

RESULT 4
Q80VG4 PRELIMINARY; PRT; 336 AA.
ID Q80VG4
AC Q80VG4; 2003 (TReMBLrel. 24, Created)
DT 01-JUN-2003 (TReMBLrel. 24, Last sequence update)
DT 25-OCT-2004 (TReMBLrel. 28, Last annotation update)
DE A secretion form of SgIGSF/TSLC1 (RA175 isoform e).
GN Name=igsf4a; Synonyms=RA175, sSgIGSF/stSLC1;
OS Mus musculus (Mouse);
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Mus;
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=C57BL/6; TISSUE=Spleen cell-derived;
RA Ito A., Koma Y., Nagano T.;
RL Submitted (SEP-2002) to the EMBL/GenBank/DBJ databases.
RN [2]
RP SEQUENCE FROM N.A.
RA Fujita E., Aikawa K., Momoi T.;
RL Submitted (JUL-2004) to the EMBL/GenBank/DBJ databases.
DR EMBL; AB092414; BAC66173.1; -.
DR EMBL; AB183402; BAD30021.1; -.
DR MGD; MGI:1889272; Igsf4a.
DR GO; GO:0016021; C:integral to membrane; TAS.
DR GO; GO:0045202; C:synapse; IDA.
DR GO; GO:0008021; C:synaptic vesicle; IDA.
DR GO; GO:0005515; F:protein binding; IPI.
DR GO; GO:0016338; P:calcium-independent cell-cell adhesion; IDA.
DR GO; GO:0007155; P:cell adhesion; IDA.
DR GO; GO:0007416; P:synaptogenesis; IDA.
DR InterPro; IPR007110; Ig-like.
DR InterPro; IPR003598; Ig_c2.
DR Pfam; PF00047; Ig; 2.
DR SMART; SM00408; IGC2; 1.
DR PROSITE; PS00835; IG_LIKE; 3.
SQ SEQUENCE 336 AA; 37155 MW; 9EF3D8B8BE5E8F72 CRC64;

Query Match 33.9%; Score 150; DB 2; Length 336;
Best Local Similarity 100.0%; Pred. No. 1.1e-131;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 34 SAAALPTGQNLFTKDVTVIEGAVATISQVKNKSDSVTLQNLNPNRQTIYFRDPRPLK 93
Db 37 SAAALPTGQNLFTKDVTVIEGAVATISQVKNKSDSVTLQNLNPNRQTIYFRDPRPLK 96
Qy 94 DSRFQNLNFSSELKVSILTNVSI SDEGRYFCOLYTDPPQESYTTITVLVPPRNLMIDIQK 153
Db 97 DSRFQNLNFSSELKVSILTNVSI SDEGRYFCOLYTDPPQESYTTITVLVPPRNLMIDIQK 156
Qy 154 DTAVEGEEIEVNCCTAMASKPATIRWFKN 183
Db 157 DTAVEGEEIEVNCCTAMASKPATIRWFKN 186

RESULT 5
Q9D6E7 PRELIMINARY; PRT; 336 AA.
ID Q9D6E7
AC Q9D6E7; 2001 (TReMBLrel. 17, Created)
DT 01-JUN-2001 (TReMBLrel. 17, Last sequence update)
DT 01-OCT-2003 (TReMBLrel. 25, Last annotation update)
```



```

Query Match      33.9%; Score 150; DB 2; Length 417;
Best Local Similarity 100.0%; Pred. No. 1.3e-131; Indels 0; Gaps 0;
Matches 150; Conservative 0; Mismatches 0;

Qy 34 SAALPTGQNLFTKDVTVIEGEVATISQVKNKSDSVIQLNPNRQTIYFRDPRPLK 93
Db 37 SAALPTGQNLFTKDVTVIEGEVATISQVKNKSDSVIQLNPNRQTIYFRDPRPLK 96

Qy 94 DSRFQLNFSSELKVSILTNVSI DSGRYFCQLYTDPQESYTTITVLVPPRNLMIDIQK 153
Db 97 DSRFQLNFSSELKVSILTNVSI DSGRYFCQLYTDPQESYTTITVLVPPRNLMIDIQK 156

Qy 154 DTAVEGEIEVNCCTAMASKPATIRWFKGN 183
Db 157 DTAVEGEIEVNCCTAMASKPATIRWFKGN 186

RESULT 7
Q6F3J3 ID Q6F3J3 PRELIMINARY; PRT; 428 AA.
AC Q6F3J3;
DT 25-OCT-2004 (TrEMBLrel. 28, Created)
DT 25-OCT-2004 (TrEMBLrel. 28, Last sequence update)
DE RA175 isoform b.
GN Name=RA175;
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RA Fujita E., Aikawa K., Momoi T.;
RL Submitted (JUL-2004) to the EMBL/GenBank/DBJ databases.
DR EMBL; AB183400; BAD30019.1; -.
DR GO; GO:0016021; C:integral to membrane; TAS.
DR GO; GO:0045202; C:synapse; IDA.
DR GO; GO:0008021; C:synaptic vesicle; IDA.
DR GO; GO:0005515; F:protein binding; IPI.
DR GO; GO:0016338; P:calcium-independent cell-cell adhesion; IDA.
DR GO; GO:0007155; P:cell adhesion; IDA.
DR GO; GO:0007416; P:synaptogenesis; IDA.
DR InterPro; IPR003598; Ig_c2.
DR InterPro; IPR007110; Ig-like.
DR SMART; SM00409; IGc2; 3.
DR PROSITE; PS50835; IG_LIKE; 3.
SQ SEQUENCE 428 AA; 46903 MW; B10DF1A2B893573 CRC64;

Query Match      33.9%; Score 150; DB 2; Length 428;
Best Local Similarity 100.0%; Pred. No. 1.4e-131; Indels 0; Gaps 0;
Matches 150; Conservative 0; Mismatches 0;

Qy 34 SAALPTGQNLFTKDVTVIEGEVATISQVKNKSDSVIQLNPNRQTIYFRDPRPLK 93
Db 37 SAALPTGQNLFTKDVTVIEGEVATISQVKNKSDSVIQLNPNRQTIYFRDPRPLK 96

Qy 94 DSRFQLNFSSELKVSILTNVSI DSGRYFCQLYTDPQESYTTITVLVPPRNLMIDIQK 153
Db 97 DSRFQLNFSSELKVSILTNVSI DSGRYFCQLYTDPQESYTTITVLVPPRNLMIDIQK 156

Qy 154 DTAVEGEIEVNCCTAMASKPATIRWFKGN 183
Db 157 DTAVEGEIEVNCCTAMASKPATIRWFKGN 186

RESULT 8
Q8K3T6 ID Q8K3T6 PRELIMINARY; PRT; 445 AA.
AC Q8K3T6;
DT 01-OCT-2002 (TrEMBLrel. 22, Created)

```

```

DT 01-OCT-2002 (TrEMBLrel. 22, Last sequence update)
DT 25-OCT-2004 (TrEMBLrel. 28, Last annotation update)
DE Synaptic cell adhesion molecule 1 (RA175 isoform c).
GN Name=Igsf4a; Synonyms=RA175;
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=C57BL;
RX MEDLINE=22192378; PubMed=12202822; DOI=10.1126/science.1072356;
RA Biederer T., Sara Y., Mzhayeva M., Atasoy D., Liu X., Kavalali E.T.,
RA Sudhof T.C.;
RT "SynCAM, a Synaptic Adhesion Molecule That Drives Synapse Assembly.";
RL Science 297:1525-1531(2002).
RN [2]
RP SEQUENCE FROM N.A.
RA Fujita E., Aikawa K., Momoi T.;
RL Submitted (JUL-2004) to the EMBL/GenBank/DBJ databases.
DR EMBL; AF539424; AAN01614.1; -.
DR EMBL; AB183399; BAD30018.1; -.
DR MGD; MGI:1889272; Igsf4a.
DR GO; GO:0016021; C:integral to membrane; TAS.
DR GO; GO:0045202; C:synapse; IDA.
DR GO; GO:0008021; C:synaptic vesicle; IDA.
DR GO; GO:0005515; F:protein binding; IPI.
DR GO; GO:0016338; P:calcium-independent cell-cell adhesion; IDA.
DR GO; GO:0007155; P:cell adhesion; IDA.
DR GO; GO:0007416; P:synaptogenesis; IDA.
DR InterPro; IPR007110; Ig-like.
DR InterPro; IPR003598; Ig_c2.
DR InterPro; IPR003585; Neurexin-like.
DR Pfam; PF00047; ig; 2.
DR SMART; SM00294; 4.1m; 1.
DR SMART; SM00408; IGc2; 1.
DR PROSITE; PS50835; IG_LIKE; 3.
SQ SEQUENCE 445 AA; 48666 MW; 5B336F23F1877497 CRC64;

Query Match      33.9%; Score 150; DB 2; Length 445;
Best Local Similarity 100.0%; Pred. No. 1.4e-131; Indels 0; Gaps 0;
Matches 150; Conservative 0; Mismatches 0;

Qy 34 SAALPTGQNLFTKDVTVIEGEVATISQVKNKSDSVIQLNPNRQTIYFRDPRPLK 93
Db 37 SAALPTGQNLFTKDVTVIEGEVATISQVKNKSDSVIQLNPNRQTIYFRDPRPLK 96

Qy 94 DSRFQLNFSSELKVSILTNVSI DSGRYFCQLYTDPQESYTTITVLVPPRNLMIDIQK 153
Db 97 DSRFQLNFSSELKVSILTNVSI DSGRYFCQLYTDPQESYTTITVLVPPRNLMIDIQK 156

Qy 154 DTAVEGEIEVNCCTAMASKPATIRWFKGN 183
Db 157 DTAVEGEIEVNCCTAMASKPATIRWFKGN 186

RESULT 9
Q8R4L1 ID Q8R4L1 PRELIMINARY; PRT; 445 AA.
AC Q8R4L1;
DT 01-JUN-2002 (TrEMBLrel. 21, Created)
DT 01-JUN-2002 (TrEMBLrel. 21, Last sequence update)
DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
DE Tumor suppressor in lung cancer 1.
GN Name=Igsf4a;
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=129/SvJ;
RX MEDLINE=22226620; PubMed=12242005; DOI=10.1016/S0378-1119(02)00835-1;

```

RA Fukami T., Satoh H., Fujita E., Maruyama T., Fukuhara H.,
RA Kuranochi M., Takamoto S., Momoi T., Murakami Y.,
RT "Identification of the Tslc1 gene, a mouse orthologue of the human
RL tumor suppressor TSLC1 gene.";
RL Gene 295:7-12(2002).
DR ENBL; AF434663; AAL86736.1; -.
DR MGD; MG1:1889272; Igsf4a.
DR GO; GO:0016021; C:integral to membrane; TAS.
DR GO; GO:0045202; C:synapse; IDA.
DR GO; GO:0008021; C:synaptic vesicle; IDA.
DR GO; GO:0005515; F:protein binding; IPI.
DR GO; GO:0016338; P:calcium-independent cell-cell adhesion; IDA.
DR GO; GO:0007155; P:cell adhesion; IDA.
DR GO; GO:0007416; P:synaptogenesis; IDA.
DR InterPro; IPR007110; Ig-like.
DR InterPro; IPR003598; Ig_c2.
DR InterPro; IPR003585; Neurexin-like.
DR Pfam; PF00047; Ig; 2.
DR SMART; SM00294; 4.1m; 1.
DR SMART; SM00408; IGC2; 1.
DR PROSITE; PS50835; IG LIKE; 3.
SQ SEQUENCE 445 AA; 48664 MW; C5D5A070DAF70B55 CRC64;

Query Match 33.9%; Score 150; DB 2; Length 445;
Best Local Similarity 100.0%; Pred. No. 1.4e-131;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 34 SAALAIPTGGQNLFTKDVTVIEGEVATISQVKNKSDSVIQLLNPRTIYPRDRPLK 93
DB |||||||
37 SAALAIPTGGQNLFTKDVTVIEGEVATISQVKNKSDSVIQLLNPRTIYPRDRPLK 96
DB |||||||
94 DSRFQLNFSSSELKVLNVSISDEGRYFCQLYTDPQESYTTITVLVPPRLMIDIQK 153
DB |||||||
97 DSRFQLNFSSSELKVLNVSISDEGRYFCQLYTDPQESYTTITVLVPPRLMIDIQK 156
DB |||||||
154 DTAVEGEIEVNCNTAMASKPATIRWPKGN 183
QY |||||||
157 DTAVEGEIEVNCNTAMASKPATIRWPKGN 186
DB |||||||

RESULT 10
Q8R5M8 Q6AYP5 PRELIMINARY; PRT; 456 AA.
AC Q8R5M8; DOI=10.1016/S0014-4827(03)00095-8;
DT 01-JUN-2002 (TrEMBLrel. 21, Created)
DT 01-JUN-2002 (TrEMBLrel. 21, Last sequence update)
DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
DE RA175.
GN Name=Igsf4a; Synonyms=RA175;
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=22683149; PubMed=12799182; DOI=10.1016/S0014-4827(03)00095-8;
RA Fujita E., Soyama A., Momoi T.;
RT "RA175, which is the mouse ortholog of TSLC1, a tumor suppressor gene
in human lung cancer, is a cell adhesion molecule.";
RL Exp. Cell Res. 287:157-66(2003).
DR ENBL; AB064265; BAB83501.2; -.
DR MGD; MG1:1889272; Igsf4a.
DR GO; GO:0016021; C:integral to membrane; TAS.
DR GO; GO:0045202; C:synapse; IDA.
DR GO; GO:0008021; C:synaptic vesicle; IDA.
DR GO; GO:0005515; F:protein binding; IPI.
DR GO; GO:0016338; P:calcium-independent cell-cell adhesion; IDA.
DR GO; GO:0007155; P:cell adhesion; IDA.
DR GO; GO:0007416; P:synaptogenesis; IDA.
DR InterPro; IPR007110; Ig-like.
DR InterPro; IPR003598; Ig_c2.
DR Pfam; PF00047; Ig; 2.

QY 34 SAALAIPTGGQNLFTKDVTVIEGEVATISQVKNKSDSVIQLLNPRTIYPRDRPLK 93
DB |||||||
37 SAALAIPTGGQNLFTKDVTVIEGEVATISQVKNKSDSVIQLLNPRTIYPRDRPLK 96
DB |||||||
94 DSRFQLNFSSSELKVLNVSISDEGRYFCQLYTDPQESYTTITVLVPPRLMIDIQK 153
DB |||||||
97 DSRFQLNFSSSELKVLNVSISDEGRYFCQLYTDPQESYTTITVLVPPRLMIDIQK 156
DB |||||||
154 DTAVEGEIEVNCNTAMASKPATIRWPKGN 183
QY |||||||
157 DTAVEGEIEVNCNTAMASKPATIRWPKGN 186
DB |||||||

RESULT 11
Q6AYP5 Q6AYP5 PRELIMINARY; PRT; 476 AA.
AC Q6AYP5; DOI=10.1073/pnas.242603899;
DT 25-OCT-2004 (TrEMBLrel. 28, Created)
DT 25-OCT-2004 (TrEMBLrel. 28, Last sequence update)
DT 25-OCT-2004 (TrEMBLrel. 28, Last annotation update)
DE Hypothetical protein.
OS Rattus norvegicus (Rat).
OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.
OX NCBI_TaxID=10116;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=Testis;
RX PubMed=12477932; DOI=10.1073/pnas.242603899;
RA Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
RA Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,
RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.P., Bhat N.K.,
RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
RA Stapleton M., Soares M.B., Donald M.F., Casavant T.L., Scheetz T.E.,
RA Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,
RA Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullaby S.J.,
RA Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
RA Villalón D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
RA Fahey J., Helton E., Kettman M., Madan A., Rodriguez S., Sanchez A.,
RA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
RA Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,
RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M., Butterfield Y.S.,
RA Krzywinski M.I., Skalska U., Smillow D.E., Schnerch A., Schein J.E.,
RA Jones S.J., Marra M.A.;
RT "Generation and initial analysis of more than 15,000 full-length human
and mouse cDNA sequences";
RL Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).
RN [2]
RP SEQUENCE FROM N.A.
RC TISSUE=Testis;
RX Director MGC Project;
RL Submitted (AUG-2004) to the EMBL/GenBank/DBJ databases.
DR ENBL; BC078966; AAH78966.1; -.
DR InterPro; IPR003599; Ig-like.
DR InterPro; IPR007110; Ig-like.
DR Pfam; PF00047; Ig; 3.
DR SMART; SM00408; IGC2; 1.
DR SMART; SM00408; IGC2; 3.
DR PROSITE; PS50835; IG LIKE; 3.
KW Hypothetical protein.
SQ SEQUENCE 476 AA; 51853 MW; 4864A3D37082C8FE CRC64;

DR SMART; SM00294; 4.1m; 1.
DR SMART; SM00408; IGC2; 1.
DR PROSITE; PS50835; IG LIKE; 3.
SQ SEQUENCE 456 AA; 49787 MW; 3226E866A4BC1C7F CRC64;

Query Match 33.9%; Score 150; DB 2; Length 456;
Best Local Similarity 100.0%; Pred. No. 1.4e-131;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 34 SAALAIPTGGQNLFTKDVTVIEGEVATISQVKNKSDSVIQLLNPRTIYPRDRPLK 93
DB |||||||
37 SAALAIPTGGQNLFTKDVTVIEGEVATISQVKNKSDSVIQLLNPRTIYPRDRPLK 96
DB |||||||
94 DSRFQLNFSSSELKVLNVSISDEGRYFCQLYTDPQESYTTITVLVPPRLMIDIQK 153
DB |||||||
97 DSRFQLNFSSSELKVLNVSISDEGRYFCQLYTDPQESYTTITVLVPPRLMIDIQK 156
DB |||||||
154 DTAVEGEIEVNCNTAMASKPATIRWPKGN 183
QY |||||||
157 DTAVEGEIEVNCNTAMASKPATIRWPKGN 186
DB |||||||

RESULT 11
Q6AYP5 Q6AYP5 PRELIMINARY; PRT; 476 AA.
AC Q6AYP5; DOI=10.1073/pnas.242603899;
DT 25-OCT-2004 (TrEMBLrel. 28, Created)
DT 25-OCT-2004 (TrEMBLrel. 28, Last sequence update)
DT 25-OCT-2004 (TrEMBLrel. 28, Last annotation update)
DE Hypothetical protein.
OS Rattus norvegicus (Rat).
OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.
OX NCBI_TaxID=10116;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=Testis;
RX PubMed=12477932; DOI=10.1073/pnas.242603899;
RA Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
RA Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,
RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.P., Bhat N.K.,
RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
RA Stapleton M., Soares M.B., Donald M.F., Casavant T.L., Scheetz T.E.,
RA Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,
RA Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullaby S.J.,
RA Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
RA Villalón D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
RA Fahey J., Helton E., Kettman M., Madan A., Rodriguez S., Sanchez A.,
RA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
RA Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,
RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M., Butterfield Y.S.,
RA Krzywinski M.I., Skalska U., Smillow D.E., Schnerch A., Schein J.E.,
RA Jones S.J., Marra M.A.;
RT "Generation and initial analysis of more than 15,000 full-length human
and mouse cDNA sequences";
RL Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).
RN [2]
RP SEQUENCE FROM N.A.
RC TISSUE=Testis;
RX Director MGC Project;
RL Submitted (AUG-2004) to the EMBL/GenBank/DBJ databases.
DR ENBL; BC078966; AAH78966.1; -.
DR InterPro; IPR003599; Ig-like.
DR InterPro; IPR007110; Ig-like.
DR Pfam; PF00047; Ig; 3.
DR SMART; SM00408; IGC2; 1.
DR SMART; SM00408; IGC2; 3.
DR PROSITE; PS50835; IG LIKE; 3.
KW Hypothetical protein.
SQ SEQUENCE 476 AA; 51853 MW; 4864A3D37082C8FE CRC64;

| | | | | |
|-----------------------|-----------------|--|-----------|-------------|
| Query Match | 33.9% | Score 150; | DB 2; | Length 476; |
| Best Local Similarity | 100.0%; | Prod. No. 1.5e-131; | | |
| Matches 150; | Conservative 0; | Mismatches 0; | Indels 0; | Gaps 0; |
| Qy | 34 | SAALIPITGCGNLFKTDVTVIEGEVATISCVQNKSDSVIQLNPNRQTIYFRD | FRPLK | 93 |
| Db | 37 | SAALIPITGCGNLFKTDVTVIEGEVATISCVQNKSDSVIQLNPNRQTIYFRD | FRPLK | 96 |
| Qy | 94 | DSRFQLNLFSSSELKVSILTNVISDEGRYFCQLYTDPDQESYTTITVLVPPRNLMIDIQK | 153 | |
| Db | 97 | DSRFQLNLFSSSELKVSILTNVISDEGRYFCQLYTDPDQESYTTITVLVPPRNLMIDIQK | 156 | |
| Qy | 154 | DTAVEGEEIEVNCETAMASKPATTIRWPKGN | 183 | |
| Db | 157 | DTAVEGEEIEVNCETAMASKPATTIRWPKGN | 186 | |

| RESULT | ID | PRELIMINARY; | PRT; | 278 AA. |
|--------|--------|---|------|---------|
| 12 | Q9QYL3 | Q9QYL3 | | |
| | AC | Q9QYL3; | | |
| | DT | 01-MAY-2000 (TrEMBLrel. 13, Created) | | |
| | DT | 01-MAY-2000 (TrEMBLrel. 13, Last sequence update) | | |
| | DT | 01-OCT-2003 (TrEMBLrel. 25, Last annotation update) | | |
| | DE | Adhesion protein RAL75N. | | |
| | GN | Name=Igsf4a; Synonyms=ral75n; | | |
| | OS | Mus musculus.(Mouse). | | |
| | OC | Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; | | |
| | OC | Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus. | | |
| | OX | NCBI_TaxID=10090; | | |
| | RN | [1] | | |
| | RP | SEQUENCE FROM N.A. | | |
| | RX | MEDLINE=226631149; PubMed=12799182; DOI=10.1016/S0014-4827(03)00095-8; | | |
| | RA | Fujita E., Soyama A., Momoi T.; | | |
| | RT | "Ral75, which is the mouse ortholog of TSLC1, a tumor suppressor gene in human lung cancer, is a cell adhesion molecule." | | |
| | RL | Exp. Cell Res. 287:57-66(2003). | | |

GO; GO:0018052/2; Igs13aa.
GO; GO:0016021; C: integral to membrane; TAS.
DR GO; GO:0045202; C: synapse; IDA.
DR GO; GO:0008021; C: synaptic vesicle; IDA.
DR GO; GO:0005515; F: protein binding; IPI.
DR GO; GO:0016338; P: calcium-independent cell-cell adhesion; IDA.
DR GO; GO:0007355; P: cell adhesion; IDA.
DR GO; GO:0007416; P: synaptogenesis; IDA.
DR InterPro; IPR007110; IG-like.
DR InterPro; IPR003598; IG C2.
DR InterPro; IPR003585; Neurexin-like.
DR Pfam; PF000047; ig; 1.
DR SMART; SM00294; 4.im; 1.
DR SMART; SM00408; IGC2; 1.
DR PROSITE; PS50835; IG_LIKE; 2.
SQ SEQUENCE 278 AA; 30636 MW; A295F4DEA2724B04 CRC64;

| | | | | |
|--|--------|---|------|------------|
| Query Match | 28.7% | Score 127 | DB 2 | Length 278 |
| Best Local Similarity | 100.0% | Pred. No. 3.4e-110 | | |
| Matches 127; Conservative 0; Mismatches 0; Indels 0; Gaps 0; | | | | |
| Qy | 185 | ELKGKSEVEESDMYTTVSQMLKVHKEDDGPVICQVEHFAVTGNLTQRYLYEVQYKPQ | 244 | |
| Db | 38 | ELKGKSEVEESDMYTTVSQMLKVHKEDDGPVICQVEHFAVTGNLTQRYLYEVQYKPQ | 97 | |
| Qy | 245 | VHIQMTYPLQGLTREGDALELTCEAIGKQPQPMVWTVRVDDMPQHAVLSGPNLFINNLN | 304 | |
| Db | 98 | VHIQMTYPLQGLTREGDALELTCEAIGKQPQPMVWTVRVDDMPQHAVLSGPNLFINNLN | 157 | |
| Qy | 305 | KTDNGTY 311 | | |
| Db | 158 | KTDNGTY 164 | | |

RESULT 13

| | | | |
|--------|--|-------|---------|
| Q90YL5 | PRELIMINARY; | PRPT; | 289 AA. |
| AC | Q90YL5; | | |
| DT | 01-MAY-2000 (TtEMBLrel. 13, Created) | | |
| DT | 01-MAY-2000 (TtEMBLrel. 13, Last sequence update) | | |
| DT | 01-OCT-2003 (TtEMBLrel. 25, Last annotation update) | | |
| DE | Adhesion protein RAI175b. | | |
| GN | Name:Igsf4a; Synonyms:rai175b; | | |
| OS | Mus musculus (Mouse). | | |
| OC | Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; | | |
| OC | Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus. | | |
| OX | NCBI_TaxID=10090; | | |
| RN | [1] | | |
| RP | SEQUENCE FROM N.A. | | |
| RA | MEDLINE=22663149; PubMed=12799182; DOI=10.1016/S0014-4827(03)00095-8; | | |
| RX | Fujita E., Soyama A., Momoi T.; | | |
| RT | "RAI175, which is the mouse ortholog of TSIC1, a tumor suppressor gene | | |
| RT | in human lung cancer, is a cell adhesion molecule."; | | |
| RL | Exp. Cell Res. 287:57-66(2003). | | |
| DR | EMBL; AB021965; BAA87915.1; -. | | |
| DR | MGD; MGI:1889272; Igsf4a. | | |
| DR | GO; GO:0016021; C:integral to membrane; TAS. | | |
| DR | GO; GO:0045202; C:synapse; IDA. | | |
| DR | GO; GO:0008021; C:synaptic vesicle; IDA. | | |
| DR | GO; GO:0005515; F:protein binding; IPI. | | |
| DR | GO; GO:0016338; P:calcium-independent cell-cell adhesion; IDA. | | |
| DR | GO; GO:0007155; P:cell adhesion; IDA. | | |
| DR | GO; GO:0007416; P:synaptogenesis; IDA. | | |
| DR | InterPro; IPR007110; Ig-like. | | |
| DR | InterPro; IPR003598; Ig.c2. | | |
| DR | InterPro; IPR003585; Neurexin-like. | | |
| DR | Pfam; PF000047; ig; 1. | | |
| DR | SMART; SM00294; 4.1m; 1. | | |
| DR | SMART; SM00408; IGC2; 1. | | |
| DR | PROSITE; PS50835; IG_LIKE; 2. | | |
| SO | SEQUENCE 289 AA; 31811 MW; 8D1B836D00565AEA4 CRC64; | | |

| | | | | | | | |
|----|-----|---|--------------|---------------------|------------|-------------|---------|
| | | Query Match | 28.7%; | Score 127; | DB 2; | Length 289; | |
| | | Best Local Similarity | 100.0%; | Pred. No. 3.5e-110; | | | |
| | | Matches 127; | Conservative | 0; | Mismatches | 0; | Gaps 0; |
| Qy | 185 | ELKGKSEVEBWSDMYVTTSQLMLKVHKEDGVPVVCQVEHPAVTGNLQTORYLEVQVKPQ | 244 | | | | |
| Dd | 38 | ELKGKSEVEBWSDMYVTTSQLMLKVHKEDGVPVICQVEHPAVTGNLQTORYLEVQVKPQ | 97 | | | | |
| Qy | 245 | VHIQMTPYLOGLTRFGDALELTCEATCKPOPMVMTWRVDDEMPQHAVLSGPNFLFINLN | 304 | | | | |
| Dd | 98 | VHIQMTPYLOGLTRFGDALELTCEATCKPOPMVMTWRVDDEMPQHAVLSGPNFLFINLN | 157 | | | | |

RESULT 14

| | | | |
|--------|--|------|---------|
| Q9QYL6 | PRELIMINARY; | PRT; | 295 AA. |
| ID | Q9QYL6 | | |
| AC | Q9QYL6; | | |
| DT | 01-MAY-2000 (T-EMBLrel. 13, Created) | | |
| DT | 01-MAY-2000 (T-EMBLrel. 13, Last sequence update) | | |
| DT | 01-OCT-2003 (T-EMBLrel. 25, Last annotation update) | | |
| DE | Adhesion protein RAI175A. | | |
| GN | Name=Igsf4a; Synonyms=rai175a; | | |
| OS | Mus musculus (Mouse). | | |
| OC | Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; | | |
| OC | Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus. | | |
| OX | NCBI_TaxID=10090; | | |
| RP | [1] | | |
| RN | SEQUENCE FROM N.A. | | |
| RX | MEDLINE=22683149; PubMed=12799182; DOI=10.1016/S0014-4827(03)00095-8; | | |
| RA | Fujita E., Soyama A., Momoi T., | | |
| RT | "RAI175, which is the mouse ortholog of TS1C1, a tumor suppressor gene | | |

RT in human lung cancer, is a cell adhesion molecule.";

RL Exp. Cell Res. 287:57-66(2003).

DR EMBL; AB021964; BAA87914.1; -.

DR MGD; MGI:1189272; Igsf4a.

DR GO; GO:0016021; C:integral to membrane; TAS.

DR GO; GO:0045202; C:synapse; IDA.

DR GO; GO:0008021; C:synaptic vesicle; IDA.

DR GO; GO:0005515; F:protein binding; IPI.

DR GO; GO:0016338; P:calcium-independent cell-cell adhesion; IDA.

DR GO; GO:0007155; P:cell adhesion; IDA.

DR GO; GO:0007416; P:synaptogenesis; IDA.

DR InterPro; IPR007110; Ig-like.

DR InterPro; IPR003598; Ig_c2.

DR Pfam; PF00047; Ig; 1.

DR SMART; SM00294; 4.1m; 1.

DR SMART; SM00408; IGC2; 1.

DR PROSITE; PS50835; IG_LIKE; 2.

SQ SEQUENCE 295 AA; 32347 MW; FDD9E8145C6B971B CRC64;

Query Match 28.7%; Score 127; DB 2; Length 295;

Best Local Similarity 100.0%; Pred. No. 3.6e-110; Indels 0; Gaps 0;

Matches 127; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 185 ELKGKSEVEWSDMYTTSQMLKVKHKEDDGVVICQVEHPAVTGNLQTORYLEVQYKPQ 244

DB 38 ELKGKSEVEWSDMYTTSQMLKVKHKEDDGVVICQVEHPAVTGNLQTORYLEVQYKPQ 97

QY 245 VHIQMTYPLQGLTREGDALELTCEAIGKQPQVMVTVRVVDDEMPQHAVLSGPNLFINNLN 304

DB 98 VHIQMTYPLQGLTREGDALELTCEAIGKQPQVMVTVRVVDDEMPQHAVLSGPNLFINNLN 157

QY 305 KTDNGTY 311

DB 158 KTDNGTY 164

RESULT 15

Q9QYL4

ID Q9QYL4 PRELIMINARY; PRT; 306 AA.

AC Q9QYL4 2000 (TrEMBLrel. 13, Created)

DT 01-MAY-2000 (TrEMBLrel. 13, Last sequence update)

DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)

DE Adhesion protein RA175C.

GN Name=Igsf4a; Synonyms=ral75c;

OS Mus musculus (Mouse).

OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.

OX NCBI_TaxID=10090;

RN [1]

RP SEQUENCE FROM N.A.

RX MEDLINE=22693149; PubMed=12799182; DOI=10.1016/S0014-4827(03)00095-8;

RA Fujita E., Soyama A., Momoi T.;

RT "RA175, which is the mouse ortholog of TS1C1, a tumor suppressor gene

in human lung cancer, is a cell adhesion molecule.";

RL Exp. Cell Res. 287:57-66(2003).

DR EMBL; AB021966; BAA87916.1; -.

DR MGD; MGI:1189272; Igsf4a.

DR GO; GO:0016021; C:integral to membrane; TAS.

DR GO; GO:0045202; C:synapse; IDA.

DR GO; GO:0008021; C:synaptic vesicle; IDA.

DR GO; GO:0005515; F:protein binding; IPI.

DR GO; GO:0016338; P:calcium-independent cell-cell adhesion; IDA.

DR GO; GO:0007155; P:cell adhesion; IDA.

DR GO; GO:0007416; P:synaptogenesis; IDA.

DR InterPro; IPR007110; Ig-like.

DR InterPro; IPR003598; Ig_c2.

DR Pfam; PF00047; Ig; 1.

DR SMART; SM00294; 4.1m; 1.

DR SMART; SM00408; IGC2; 1.

DR PROSITE; PS50835; IG_LIKE; 2.

SQ SEQUENCE 306 AA; 33522 MW; A4CE37B0F23554D5 CRC64;

Query Match 28.7%; Score 127; DB 2; Length 306;

Best Local Similarity 100.0%; Pred. No. 3.7e-110; Indels 0; Gaps 0;

Matches 127; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 185 ELKGKSEVEWSDMYTTSQMLKVKHKEDDGVVICQVEHPAVTGNLQTORYLEVQYKPQ 244

DB 38 ELKGKSEVEWSDMYTTSQMLKVKHKEDDGVVICQVEHPAVTGNLQTORYLEVQYKPQ 97

QY 245 VHIQMTYPLQGLTREGDALELTCEAIGKQPQVMVTVRVVDDEMPQHAVLSGPNLFINNLN 304

DB 98 VHIQMTYPLQGLTREGDALELTCEAIGKQPQVMVTVRVVDDEMPQHAVLSGPNLFINNLN 157

QY 305 KTDNGTY 311

DB 158 KTDNGTY 164

RESULT 16

Q9Z2H8

ID Q9Z2H8 PRELIMINARY; PRT; 295 AA.

AC Q9Z2H8

DT 01-MAY-1999 (TrEMBLrel. 10, Created)

DT 01-MAY-1999 (TrEMBLrel. 10, Last sequence update)

DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)

DE Nectin-like protein 2.

GN Name=Igsf4a; Synonyms=Necl2;

OS Mus musculus (Mouse).

OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.

OX NCBI_TaxID=10090;

RN [1]

RP SEQUENCE FROM N.A.

RA Zhou Y., Du G., Chen J., Yuan J., Qiang B.;

RL Submitted (APR-1998) to the EMBL/GenBank/DBJ databases.

DR EMBL; AF061260; AAC67243.1; -.

DR MGD; MGI:1889272; Igsf4a.

DR GO; GO:0016021; C:integral to membrane; TAS.

DR GO; GO:0045202; C:synapse; IDA.

DR GO; GO:0008021; C:synaptic vesicle; IDA.

DR GO; GO:0005515; F:protein binding; IPI.

DR GO; GO:0016338; P:calcium-independent cell-cell adhesion; IDA.

DR GO; GO:0007155; P:cell adhesion; IDA.

DR GO; GO:0007416; P:synaptogenesis; IDA.

DR InterPro; IPR007110; Ig-like.

DR InterPro; IPR003598; Ig_c2.

DR Pfam; PF00047; Ig; 2.

DR SMART; SM00294; 4.1m; 1.

DR SMART; SM00408; IGC2; 1.

DR PROSITE; PS50835; IG_LIKE; 2.

SQ SEQUENCE 295 AA; 32509 MW; 9DE9D86F6F6F488 CRC64;

Query Match 23.5%; Score 104; DB 2; Length 295;

Best Local Similarity 100.0%; Pred. No. 1.3e-88;

Matches 104; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 264 ELTCEAIGKQPQVMVTVRVVDDEMPQHAVLSGPNLFINNLKTDNGTYRCEASNIYVGAH 323

DB 117 ELTCEAIGKQPQVMVTVRVVDDEMPQHAVLSGPNLFINNLKTDNGTYRCEASNIYVGAH 176

QY 324 SDYMLVYDPPPTIPPTTT 367

DB 177 SDYMLVYDPPPTIPPTTT 220

RESULT 17

Q6WZK6

ID Q6WZK6 PRELIMINARY; PRT; 84 AA.

AC Q6WZK6

DT 05-JUL-2004 (TrEMBLrel. 27, Created)

DT 05-JUL-2004 (TrEMBLrel. 27, Last sequence update)

```
DT 05-JUL-2004 (TrEMBLrel. 27, Last annotation update)
DE Hypothetical protein DFXZp686f1789 (Fragment).
GN Name=DFXZp686f1789;
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RC Tissue=Human retina;
RG The German Human cDNA Consortium;
RA Kohrer K., Beyer A., Mewes H.W., Weil B., Amid C., Osanger A.,
RA Fobo G., Han M., Wiemann S.;
RL Submitted (AUG-2003) to the EMBL/GenBank/DBJ databases.
DR EMBL; BX641042; CA646024.1; -.
KW Hypothetical protein.
FT NON TER 1
SQ SEQUENCE 84 AA; 8986 MW; D50A20AD25854087 CRC64;

Query Match 19.0%; Score 84; DB 2; Length 84;
Best Local Similarity 100.0%; Pred. No. 2.5e-70;
Matches 84; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 359 TDSRAGEGSGIRAVDHAVIGVAVVVFAMLCIIILGRYFARHKGTYFTHEAKGADAA 418
DB 1 TDSRAGEGSGIRAVDHAVIGVAVVVFAMLCIIILGRYFARHKGTYFTHEAKGADAA 60

QY 419 DADTAIINAEQGNSEKKEYFI 442
DB 61 DADTAIINAEQGNSEKKEYFI 84

RESULT 18
O61023 PRELIMINARY; PRT; 74 AA.
AC O61023;
DT 01-AUG-1998 (TrEMBLrel. 07, Created)
DT 01-AUG-1998 (TrEMBLrel. 07, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE Mucin-like protein (Fragment).
GN Name=EMUCe-4;
OS Trypanosoma cruzi.
OC Eukaryota; Euglenozoa; Kinetoplastida; Trypanosomatidae; Trypanosoma.
OX NCBI_TaxID=5693;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=Ci-Brenner;
RX MEDLINE=98225151; PubMed=9556557; DOI=10.1074/jbc.273.18.10843;
RA Di Noia J.M., D'Orso I., Aslund L., Sanchez D.O., Frasch A.C.;
RT "The Trypanosoma cruzi mucin family is transcribed from hundreds of
genes having hypervariable regions.";
RL J. Biol. Chem. 273:10843-10850(1998).
DR EMBL; AF036411; AAC14222.1; -.
DR InterPro; IPR000458; Tryp_mucin.
DR Pfam; PF01456; Mucin; 1.
FT NON TER 74
SQ SEQUENCE 74 AA; 7743 MW; 734CC3763E21401 CRC64;

Query Match 3.4%; Score 15; DB 2; Length 74;
Best Local Similarity 100.0%; Pred. No. 1.1e-05;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 339 PPTTTTTTTTTTTTTT 353
DB 59 PPTTTTTTTTTTTTTT 73

RESULT 19
O9TVF2 PRELIMINARY; PRT; 86 AA.
ID O9TVF2
AC O9TVF2;
DT 01-MAY-2000 (TrEMBLrel. 13, Created)
DT 01-MAY-2000 (TrEMBLrel. 13, Last sequence update)
GN Name=EMUCe-11;
```

```
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE Mucin-like protein (Fragment).
GN Name=EMUCe-12;
OS Trypanosoma cruzi.
OC Eukaryota; Euglenozoa; Kinetoplastida; Trypanosomatidae; Trypanosoma.
OX NCBI_TaxID=5693;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=Ci-Brenner;
RX MEDLINE=98225151; PubMed=9556557; DOI=10.1074/jbc.273.18.10843;
RA Di Noia J.M., D'Orso I., Aslund L., Sanchez D.O., Frasch A.C.;
RT "The Trypanosoma cruzi mucin family is transcribed from hundreds of
genes having hypervariable regions.";
RL J. Biol. Chem. 273:10843-10850(1998).
DR EMBL; AF036436; AAC14240.1; -.
DR InterPro; IPR000458; Tryp_mucin.
DR Pfam; PF01456; Mucin; 1.
FT NON TER 86
SQ SEQUENCE 86 AA; 8963 MW; 7AD26B22604E36A9 CRC64;

Query Match 3.4%; Score 15; DB 2; Length 86;
Best Local Similarity 100.0%; Pred. No. 1.2e-05;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 339 PPTTTTTTTTTTTTTT 353
DB 71 PPTTTTTTTTTTTTTT 85

RESULT 20
O61058 PRELIMINARY; PRT; 98 AA.
ID O61058;
DT 01-AUG-1998 (TrEMBLrel. 07, Created)
DT 01-AUG-1998 (TrEMBLrel. 07, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE Mucin-like protein (Fragment).
GN Name=EMUCe-18;
OS Trypanosoma cruzi.
OC Eukaryota; Euglenozoa; Kinetoplastida; Trypanosomatidae; Trypanosoma.
OX NCBI_TaxID=5693;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=Ci-Brenner;
RX MEDLINE=98225151; PubMed=9556557; DOI=10.1074/jbc.273.18.10843;
RA Di Noia J.M., D'Orso I., Aslund L., Sanchez D.O., Frasch A.C.;
RT "The Trypanosoma cruzi mucin family is transcribed from hundreds of
genes having hypervariable regions.";
RL J. Biol. Chem. 273:10843-10850(1998).
DR EMBL; AF036465; AAC14259.1; -.
DR InterPro; IPR000458; Tryp_mucin.
DR Pfam; PF01456; Mucin; 1.
FT NON TER 98
SQ SEQUENCE 98 AA; 10158 MW; BE9146BAA3FD9520 CRC64;

Query Match 3.4%; Score 15; DB 2; Length 98;
Best Local Similarity 100.0%; Pred. No. 1.4e-05;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 339 PPTTTTTTTTTTTTTT 353
DB 71 PPTTTTTTTTTTTTTT 85

RESULT 21
O61033 PRELIMINARY; PRT; 102 AA.
ID O61033;
DT 01-AUG-1998 (TrEMBLrel. 07, Created)
DT 01-AUG-1998 (TrEMBLrel. 07, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE Mucin-like protein (Fragment).
GN Name=EMUCe-11;
```

```
OS Trypanosoma cruzi.
OC Eukaryota; Euglenozoa; Kinetoplastida; Trypanosomatidae; Trypanosoma.
OX NCBI_TaxID=5693;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=C1-Brenner;
RX MEDLINE=98225151; PubMed=9556557; DOI=10.1074/jbc.273.18.10843;
RA Di Noia J.M., D'Orso I., Aslund L., Sanchez D.O., Frasch A.C.;
RT "The Trypanosoma cruzi mucin family is transcribed from hundreds of
  genes having hypervariable regions.";
RL J. Biol. Chem. 273:10843-10850(1998).
DR EMBL; AF036422; AAC14232.1; -.
DR InterPro; IPR000458; Tryp_mucin.
DR Pfam; PF01456; Mucin; 1.
FT NON TER 102
SQ SEQUENCE 102 AA; 10605 MW; E55212A8D1297B5A CRC64;

Query Match 3.4%; Score 15; DB 2; Length 102;
Best Local Similarity 100.0%; Pred. No. 1.4e-05;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 339 PPTTTTTTTTTTTT 353
Db |||||
44 PPTTTTTTTTTTTT 58

RESULT 22
Q9XWNO PRELIMINARY; PRT; 108 AA.
AC Q9XWNO;
DT 01-NOV-1999 (TrEMBLrel. 12, Created)
DT 01-NOV-1999 (TrEMBLrel. 12, Last sequence update)
DT 01-JUN-2003 (TrEMBLrel. 24, Last annotation update)
DE Hypothetical protein Y43F8C.9.
GN ORFNames=Y43F8C.9;
OS Caenorhabditis elegans.
OC Eukaryota; Metazoa; Nematoda; Chromadorea; Rhabditida; Rhabditoidea;
OC Rhabditidae; Peloderinae; Caenorhabditis.
OX NCBI_TaxID=6239;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=Bristol N2;
RX MEDLINE=99069613; PubMed=9851916;
RA none;
RT "Genome sequence of the nematode C.elegans: A platform for
  investigating biology.";
RL Science 282:2012-2018(1998).
RN [2]
RP SEQUENCE FROM N.A.
RC STRAIN=Bristol N2;
RX Ainscough R.;
RL Submitted (OCT-1998) to the EMBL/GenBank/DBJ databases.
DR EMBL; AL032837; CA21621.1; -.
DR PIR; T26880; T26880.
DR WormBase; WBGene00012831; Y43F8C.9.
DR WormPeP; Y43F8C.9; CE21907.
KW Hypothetical protein.
SQ SEQUENCE 108 AA; 11733 MW; F72D37C2B7432602 CRC64;

Query Match 3.4%; Score 15; DB 2; Length 108;
Best Local Similarity 100.0%; Pred. No. 1.5e-05;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 339 PPTTTTTTTTTTTT 353
Db |||||
48 PPTTTTTTTTTTTT 62

RESULT 23
O61046 PRELIMINARY; PRT; 115 AA.
ID O61046
AC O61046;
DT 01-AUG-1998 (TrEMBLrel. 07, Created)
```

```
DT 01-AUG-1998 (TrEMBLrel. 07, Last sequence update)
DE Mucin-like protein.
GN Name=EMUCT-7;
OS Trypanosoma cruzi.
OC Eukaryota; Euglenozoa; Kinetoplastida; Trypanosomatidae; Trypanosoma.
OX NCBI_TaxID=5693;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=C1-Brenner;
RX MEDLINE=98225151; PubMed=9556557; DOI=10.1074/jbc.273.18.10843;
RA Di Noia J.M., D'Orso I., Aslund L., Sanchez D.O., Frasch A.C.;
RT "The Trypanosoma cruzi mucin family is transcribed from hundreds of
  genes having hypervariable regions.";
RL J. Biol. Chem. 273:10843-10850(1998).
DR EMBL; AF036450; AAC14247.1; -.
DR InterPro; IPR000458; Tryp_mucin.
DR Pfam; PF01456; Mucin; 1.
SQ SEQUENCE 115 AA; 11729 MW; 321826F0FDEDEF0E CRC64;

Query Match 3.4%; Score 15; DB 2; Length 115;
Best Local Similarity 100.0%; Pred. No. 1.6e-05;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 339 PPTTTTTTTTTTTT 353
Db |||||
43 PPTTTTTTTTTTTT 57

RESULT 24
Q6WAZ9 PRELIMINARY; PRT; 121 AA.
AC Q6WAZ9;
DT 05-JUL-2004 (TrEMBLrel. 27, Created)
DT 05-JUL-2004 (TrEMBLrel. 27, Last sequence update)
DE Mucin-like protein.
OS Trypanosoma cruzi.
OC Eukaryota; Euglenozoa; Kinetoplastida; Trypanosomatidae; Trypanosoma.
OX NCBI_TaxID=5693;
RN [1]
RP SEQUENCE FROM N.A.
RX PubMed=14668015; DOI=10.1016/j.molbiopara.2003.09.006;
RA Campo V., Di Noia J.M., Buscaglia C.A., Aguero F., Sanchez D.O.,
  Frasch A.C.C.;
RT "Differential accumulation of mutations localized in particular
  domains of the mucin genes expressed in the vertebrate host stage of
  Trypanosoma cruzi.";
RL Mol. Biochem. Parasitol. 133:81-91(2004).
DR EMBL; AY298908; AAQ74639.1; -.
DR InterPro; IPR000458; Tryp_mucin.
DR Pfam; PF01456; Mucin; 1.
SQ SEQUENCE 121 AA; 12463 MW; 800A0E88DF3AE59 CRC64;

Query Match 3.4%; Score 15; DB 2; Length 121;
Best Local Similarity 100.0%; Pred. No. 1.6e-05;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 339 PPTTTTTTTTTTTT 353
Db |||||
44 PPTTTTTTTTTTTT 58

RESULT 25
O15774 PRELIMINARY; PRT; 122 AA.
AC O15774;
DT 01-JAN-1998 (TrEMBLrel. 05, Created)
DT 01-JAN-1998 (TrEMBLrel. 05, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE Mucin-like protein (Fragment).
OS Trypanosoma cruzi.
OC Eukaryota; Euglenozoa; Kinetoplastida; Trypanosomatidae; Trypanosoma.
```

```
OX NCBI_TaxID=5693;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=Berkley;
RX MEDLINE=98324409; PubMed=9662032; DOI=10.1016/S0166-6851(98)00025-5;
RA Freitas-Junior L.H., Briones M.R., Schenkman S.;
RT "Two distinct groups of mucin-like genes are differentially expressed
in the developmental stages of Trypanosoma cruzi.";
RL Mol. Biochem. Parasitol. 93:101-114(1998).
DR EMBL; AF027872; AAC48350.1; -;
DR InterPro; IPR000458; Tryp_mucin.
DR Pfam; PF01456; Mucin; 1.
FT NON TER 122 122
SQ SEQUENCE 122 AA; 12500 MW; 47CDEF9BD43814FA CRC64;

Query Match 3.4%; Score 15; DB 2; Length 122;
Best Local Similarity 100.0%; Pred. No. 1.7e-05;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 339 PPTTTTTTTTTTTT 353
DB 42 PPTTTTTTTTTTTT 56

RESULT 26
O61025 PRELIMINARY; PRT; 125 AA.
AC O61025;
DT 01-AUG-1998 (TrEMBLrel. 07, Created)
DT 01-AUG-1998 (TrEMBLrel. 07, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE Mucin-like protein.
GN Name=EMUCe-9;
OS Trypanosoma cruzi.
OC Eukaryota; Euklenozoa; Kinetoplastida; Trypanosomatidae; Trypanosoma.
OX NCBI_TaxID=5693;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=Cl-Brenner;
RX MEDLINE=98225151; PubMed=9556557; DOI=10.1074/jbc.273.18.10843;
RA Di Noia J.M., D'Orso I., Aslund L., Sanchez D.O., Frasch A.C.;
RT "The Trypanosoma cruzi mucin family is transcribed from hundreds of
genes having hypervariable regions.";
RL J. Biol. Chem. 273:10843-10850(1998).
DR EMBL; AF036413; AAC14224.1; -;
DR InterPro; IPR000458; Tryp_mucin.
DR Pfam; PF01456; Mucin; 1.
SQ SEQUENCE 125 AA; 12894 MW; 2DF1A14AA29A8604 CRC64;

Query Match 3.4%; Score 15; DB 2; Length 125;
Best Local Similarity 100.0%; Pred. No. 1.7e-05;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 339 PPTTTTTTTTTTTT 353
DB 56 PPTTTTTTTTTTTT 70

RESULT 27
Q962W4 PRELIMINARY; PRT; 125 AA.
AC Q962W4;
DT 01-DEC-2001 (TrEMBLrel. 19, Created)
DT 01-DEC-2001 (TrEMBLrel. 19, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE Mucin-like protein MUC-10c6.
OS Trypanosoma cruzi.
OC Eukaryota; Euklenozoa; Kinetoplastida; Trypanosomatidae; Trypanosoma.
OX NCBI_TaxID=5693;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=Cl-Brenner;
RA Di Noia J.M., Frasch A.C.C.;
```

```
RL Submitted (JUL-2001) to the EMBL/GenBank/DBJ databases.
DR EMBL; AF398553; AAK94016.1; -;
DR InterPro; IPR000458; Tryp_mucin.
DR Pfam; PF01456; Mucin; 1.
SQ SEQUENCE 125 AA; 12870 MW; 2188F87FA6C71F07 CRC64;

Query Match 3.4%; Score 15; DB 2; Length 125;
Best Local Similarity 100.0%; Pred. No. 1.7e-05;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 339 PPTTTTTTTTTTTT 353
DB 56 PPTTTTTTTTTTTT 70

RESULT 28
O61021 PRELIMINARY; PRT; 126 AA.
AC O61021;
DT 01-AUG-1998 (TrEMBLrel. 07, Created)
DT 01-MAY-2000 (TrEMBLrel. 13, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE Mucin-like protein.
GN Name=EMUCe-2;
OS Trypanosoma cruzi.
OC Eukaryota; Euklenozoa; Kinetoplastida; Trypanosomatidae; Trypanosoma.
OX NCBI_TaxID=5693;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=Cl-Brenner;
RX MEDLINE=98225151; PubMed=9556557; DOI=10.1074/jbc.273.18.10843;
RA Di Noia J.M., D'Orso I., Aslund L., Sanchez D.O., Frasch A.C.;
RT "The Trypanosoma cruzi mucin family is transcribed from hundreds of
genes having hypervariable regions.";
RL J. Biol. Chem. 273:10843-10850(1998).
DR EMBL; AF036409; AAC14220.2; -;
DR InterPro; IPR000458; Tryp_mucin.
DR Pfam; PF01456; Mucin; 1.
SQ SEQUENCE 126 AA; 13023 MW; F3858008D3C768A1 CRC64;

Query Match 3.4%; Score 15; DB 2; Length 126;
Best Local Similarity 100.0%; Pred. No. 1.7e-05;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 339 PPTTTTTTTTTTTT 353
DB 55 PPTTTTTTTTTTTT 69

RESULT 29
O61056 PRELIMINARY; PRT; 126 AA.
AC O61056;
DT 01-AUG-1998 (TrEMBLrel. 07, Created)
DT 01-MAY-2000 (TrEMBLrel. 13, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE Mucin-like protein.
GN Name=EMUCt-15;
OS Trypanosoma cruzi.
OC Eukaryota; Euklenozoa; Kinetoplastida; Trypanosomatidae; Trypanosoma.
OX NCBI_TaxID=5693;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=Cl-Brenner;
RX MEDLINE=98225151; PubMed=9556557; DOI=10.1074/jbc.273.18.10843;
RA Di Noia J.M., D'Orso I., Aslund L., Sanchez D.O., Frasch A.C.;
RT "The Trypanosoma cruzi mucin family is transcribed from hundreds of
genes having hypervariable regions.";
```

RL J. Biol. Chem. 273:10843-10850(1998).
RN [2]
RP SEQUENCE FROM N.A.
RC STRAIN=C1-Brenner;
RA D'Orso I., Di Noia J.M.;
RL Submitted (JAN-2000) to the EMBL/GenBank/DBJ databases.
DR EMBL; AF036463; AAC14257.2; -;
DR InterPro; IPR000458; Tryp_mucin.
DR Pfam; PF01456; Mucin; 1.
SQ SEQUENCE 126 AA; 13049 MW; F399EC78D3C768A1 CRC64;

Query Match 3.4%; Score 15; DB 2; Length 126;
Best Local Similarity 100.0%; Pred. No. 1.7e-05;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 339 PPTTTTTTTTTTTTTT 353
Db 55 PPTTTTTTTTTTTTTT 69

RESULT 30
P90603
ID P90603 PRELIMINARY; PRT; 128 AA.
AC P90603;
DT 01-MAY-1997 (TrEMBLrel. 03, Created)
DT 01-MAY-1997 (TrEMBLrel. 03, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE MUC.CL-1.
GN Name=MUC.CL-1;
OS Trypanosoma cruzi.
OC Eukaryota; Euglenozoa; Kinetoplastida; Trypanosomatidae; Trypanosoma.
OX NCBI_TaxID=5693;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=CL Brenner;
RX MEDLINE=97113006; PubMed=8943259; DOI=10.1074/jbc.271.50.32078;
RA Di Noia J.M., Pollevick G.D., Xavier M.T., Previtato J.O.,
RA Mendoca-Previtato L., Sanchez D.O., Frasch A.C.;
RT "High diversity in mucin genes and mucin molecules in Trypanosoma cruzi.";
RL J. Biol. Chem. 271:32078-32083(1996).
DR EMBL; U62530; AAC47402.1; -;
DR InterPro; IPR000458; Tryp_mucin.
DR Pfam; PF01456; Mucin; 1.
SQ SEQUENCE 128 AA; 13207 MW; 30ACB7C3F8E633B4 CRC64;

Query Match 3.4%; Score 15; DB 2; Length 128;
Best Local Similarity 100.0%; Pred. No. 1.7e-05;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 339 PPTTTTTTTTTTTTTT 353
Db 55 PPTTTTTTTTTTTTTT 69

RESULT 31
O61037
ID O61037 PRELIMINARY; PRT; 139 AA.
AC O61037;
DT 01-AUG-1998 (TrEMBLrel. 07, Created)
DT 01-AUG-1998 (TrEMBLrel. 07, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE Mucin-like protein.
GN Name=EMUCe-37p20;
OS Trypanosoma cruzi.
OC Eukaryota; Euglenozoa; Kinetoplastida; Trypanosomatidae; Trypanosoma.
OX NCBI_TaxID=5693;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=C1-Brenner;
RX MEDLINE=98225151; PubMed=9556557; DOI=10.1074/jbc.273.18.10843;
RA Di Noia J.M., D'Orso I., Aslund L., Sanchez D.O., Frasch A.C.;
RT "The Trypanosoma cruzi mucin family is transcribed from hundreds of

RT genes having hypervariable regions.";
RL J. Biol. Chem. 273:10843-10850(1998).
DR EMBL; AF036427; AAC14349.1; -;
DR InterPro; IPR000458; Tryp_mucin.
DR Pfam; PF01456; Mucin; 1.
SQ SEQUENCE 139 AA; 14311 MW; 9236BB31B85992B7 CRC64;

Query Match 3.4%; Score 15; DB 2; Length 139;
Best Local Similarity 100.0%; Pred. No. 1.9e-05;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 339 PPTTTTTTTTTTTTTT 353
Db 70 PPTTTTTTTTTTTTTT 84

RESULT 32
P90601
ID P90601 PRELIMINARY; PRT; 139 AA.
AC P90601;
DT 01-MAY-1997 (TrEMBLrel. 03, Created)
DT 01-MAY-1997 (TrEMBLrel. 03, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE MUC.Y-1 protein.
GN Name=MUC.Y-1;
OS Trypanosoma cruzi.
OC Eukaryota; Euglenozoa; Kinetoplastida; Trypanosomatidae; Trypanosoma.
OX NCBI_TaxID=5693;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=Berkley;
RX MEDLINE=97113006; PubMed=8943259; DOI=10.1074/jbc.271.50.32078;
RA Di Noia J.M., Pollevick G.D., Xavier M.T., Previtato J.O.,
RA Mendoca-Previtato L., Sanchez D.O., Frasch A.C.;
RT "High diversity in mucin genes and mucin molecules in Trypanosoma cruzi.";
RL J. Biol. Chem. 271:32078-32083(1996).
DR EMBL; U59482; AAC47399.1; -;
DR InterPro; IPR000458; Tryp_mucin.
DR Pfam; PF01456; Mucin; 1.
SQ SEQUENCE 139 AA; 14395 MW; D7DCECEB2FF8A26B CRC64;

Query Match 3.4%; Score 15; DB 2; Length 139;
Best Local Similarity 100.0%; Pred. No. 1.9e-05;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 339 PPTTTTTTTTTTTTTT 353
Db 68 PPTTTTTTTTTTTTTT 82

RESULT 33
Q6WAZ8
ID Q6WAZ8 PRELIMINARY; PRT; 139 AA.
AC Q6WAZ8;
DT 05-JUL-2004 (TrEMBLrel. 27, Created)
DT 05-JUL-2004 (TrEMBLrel. 27, Last sequence update)
DT 05-JUL-2004 (TrEMBLrel. 27, Last annotation update)
DE Mucin-like protein.
OS Trypanosoma cruzi.
OC Eukaryota; Euglenozoa; Kinetoplastida; Trypanosomatidae; Trypanosoma.
OX NCBI_TaxID=5693;
RN [1]
RP SEQUENCE FROM N.A.
RX PubMed=14668015; DOI=10.1016/j.molbiopara.2003.09.006;
RA Campo V., Di Noia J.M., Buscaglia C.A., Agüero F., Sanchez D.O.,
RA Frasch A.C.C.;
RT "Differential accumulation of mutations localized in particular domains of the mucin genes expressed in the vertebrate host stage of Trypanosoma cruzi.";
RL Mol. Biochem. Parasitol. 133:81-91(2004).
DR EMBL; AY298908; AAQ74640.1; -;
DR InterPro; IPR000458; Tryp_mucin.

DR Pfam; PF01456; Mucin; 1.
SQ SEQUENCE 139 AA; 14277 MW; 79A799908014DD21 CRC64;

Query Match 3.4%; Score 15; DB 2; Length 139;
Best Local Similarity 100.0%; Pred. No. 1.9e-05;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 339 PPTTTTTTTTTTTTTT 353
Db 71 PPTTTTTTTTTTTTTT 85

RESULT 34
Q962W5 PRELIMINARY; PRT; 140 AA.
AC Q962W5;
DT 01-DEC-2001 (TREMBlrel. 19, Created)
DT 01-DEC-2001 (TREMBlrel. 19, Last sequence update)
DT 01-MAR-2004 (TREMBlrel. 26, Last annotation update)
DE Mucin-like protein MUC-loc5.
OS Trypanosoma cruzi.
OC Eukaryota; Euglenozoa; Kinetoplastida; Trypanosomatidae; Trypanosoma.
OX NCBI_TaxID=5693;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=C1-Brenner;
RA Di Noia J.M., Frasch A.C.C.;
RL Submitted (JUL-2001) to the EMBL/GenBank/DBJ databases.
DR EMBL; AF398552; AA094015.1; -
DR InterPro; IPR000458; Tryp_mucin.
DR Pfam; PF01456; Mucin; 1.
SQ SEQUENCE 140 AA; 14343 MW; 5CC154419F2A58CA CRC64;

Query Match 3.4%; Score 15; DB 2; Length 140;
Best Local Similarity 100.0%; Pred. No. 1.9e-05;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 339 PPTTTTTTTTTTTTTT 353
Db 72 PPTTTTTTTTTTTTTT 86

RESULT 35
Q15776 PRELIMINARY; PRT; 143 AA.
AC Q15776;
DT 01-JAN-1998 (TREMBlrel. 05, Created)
DT 01-JAN-1998 (TREMBlrel. 05, Last sequence update)
DT 01-MAR-2004 (TREMBlrel. 26, Last annotation update)
DE Mucin-like protein (Fragment).
OS Trypanosoma cruzi.
OC Eukaryota; Euglenozoa; Kinetoplastida; Trypanosomatidae; Trypanosoma.
OX NCBI_TaxID=5693;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=Berkley;
RX MEDLINE=98324409; PubMed=9662032; DOI=10.1016/S0166-6851(98)00025-5;
RA Freitas-Junior L.H., Briones M.R., Schenkman S.;
RT "Two distinct groups of mucin-like genes are differentially expressed
in the developmental stages of Trypanosoma cruzi";
RL Mol. Biochem. Parasitol. 93:101-114 (1998).
DR EMBL; AF027874; AAC48352.1; -
DR InterPro; IPR000458; Tryp_mucin.
DR Pfam; PF01456; Mucin; 1.
FT NON TER 143
SQ SEQUENCE 143 AA; 14610 MW; 6AB6E7B7FA85F58B CRC64;

Query Match 3.4%; Score 15; DB 2; Length 143;
Best Local Similarity 100.0%; Pred. No. 1.9e-05;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 339 PPTTTTTTTTTTTTTT 353
Db 71 PPTTTTTTTTTTTTTT 85

RESULT 36
Q61019 PRELIMINARY; PRT; 148 AA.
AC Q61019;
DT 01-AUG-1998 (TREMBlrel. 07, Created)
DT 01-AUG-1998 (TREMBlrel. 07, Last sequence update)
DT 01-MAR-2004 (TREMBlrel. 26, Last annotation update)
DE Mucin-like protein.
GN Name=EMUCe-1;
OS Trypanosoma cruzi.
OC Eukaryota; Euglenozoa; Kinetoplastida; Trypanosomatidae; Trypanosoma.
OX NCBI_TaxID=5693;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=C1-Brenner;
RX MEDLINE=98225151; PubMed=9556557; DOI=10.1074/jbc.273.18.10843;
RA Di Noia J.M., D'Orso I., Aslund L., Sanchez D.O., Frasch A.C.;
RT "The Trypanosoma cruzi mucin family is transcribed from hundreds of
genes having hypervariable regions";
RL J. Biol. Chem. 273:10843-10850 (1998).
DR EMBL; AF036407; AAC14218.1; -
DR InterPro; IPR000458; Tryp_mucin.
DR Pfam; PF01456; Mucin; 1.
SQ SEQUENCE 148 AA; 15212 MW; ABF2E02CF13EA059 CRC64;

Query Match 3.4%; Score 15; DB 2; Length 148;
Best Local Similarity 100.0%; Pred. No. 2e-05;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 339 PPTTTTTTTTTTTTTT 353
Db 68 PPTTTTTTTTTTTTTT 82

RESULT 37
Q6WB00 PRELIMINARY; PRT; 148 AA.
AC Q6WB00;
DT 05-JUL-2004 (TREMBlrel. 27, Created)
DT 05-JUL-2004 (TREMBlrel. 27, Last sequence update)
DT 05-JUL-2004 (TREMBlrel. 27, Last annotation update)
DE Mucin-like protein.
OS Trypanosoma cruzi.
OC Eukaryota; Euglenozoa; Kinetoplastida; Trypanosomatidae; Trypanosoma.
OX NCBI_TaxID=5693;
RN [1]
RP SEQUENCE FROM N.A.
RX PubMed=14668015; DOI=10.1016/j.molbiopara.2003.09.006;
RA Campo V., Di Noia J.M., Buscaglia C.A., Agüero F., Sanchez D.O.,
RA Frasch A.C.C.;
RT "Differential accumulation of mutations localized in particular
domains of the mucin genes expressed in the vertebrate host stage of
Trypanosoma cruzi";
RL Mol. Biochem. Parasitol. 133:81-91 (2004).
DR EMBL; AY298308; AAQ74638.1; -
DR InterPro; IPR000458; Tryp_mucin.
DR Pfam; PF01456; Mucin; 1.
SQ SEQUENCE 148 AA; 15203 MW; C7F2E02CF13554E6 CRC64;

Query Match 3.4%; Score 15; DB 2; Length 148;
Best Local Similarity 100.0%; Pred. No. 2e-05;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 339 PPTTTTTTTTTTTTTT 353
Db 68 PPTTTTTTTTTTTTTT 82

RESULT 38
Q25334

ID Q25334 PRELIMINARY; PRT; 327 AA.
AC Q25334;
DT 01-NOV-1996 (TrEMBLrel. 01, Created)
DT 01-NOV-1996 (TrEMBLrel. 01, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE Surface antigen P2 (Fragment).
OS Leishmania major.
OC Eukaryota; Euklenozoa; Kinetoplastida; Trypanosomatidae; Leishmania.
OX NCBI_TaxID=5664;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=V121;
RX MEDLINE=92105105; PubMed=1761547;
RA Murray P.J., Spithill T.W.;
RT "Variants of a Leishmania surface antigen derived from a multigenic family";
RL J. Biol. Chem. 266:24477-24484 (1991).
DR EMBL; X57135; CAA0414.1; -;
DR PIR; S20074; S20074.
DR InterPro; IPR009030; Grow_fac_recept.
DR InterPro; IPR006210; IEGF.
DR InterPro; IPR001611; LRR.
DR InterPro; IPR007090; LRR_plant.
DR Pfam; PF00560; LRR_1; 3.
DR SMART; SM00181; EGF; 1.
FT NON TER 1
SQ SEQUENCE 327 AA; 34229 MW; 2571B35B6577E715 CRC64;

Query Match 3.4%; Score 15; DB 2; Length 327;
Best Local Similarity 100.0%; Pred. No. 3.8e-05;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 339 PPTTTTTTTTTTTT 353
DB 183 PPTTTTTTTTTTTT 197

RESULT 39
Q86A81 PRELIMINARY; PRT; 648 AA.
AC Q86A81;
DT 01-JUN-2003 (TrEMBLrel. 24, Created)
DT 01-JUN-2003 (TrEMBLrel. 24, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE Similar to Mus musculus (Mouse). 12 days embryo head cDNA, RIKEN full-length enriched library, clone:300008H23 product:hypothetical Acyl-CoA dehydrogenase/Glutamic acid-rich region containing protein, full insert sequence.
OS Dictyostelium discoideum (Slime mold).
OC Eukaryota; Mycetozoa; Dictyosteliida; Dictyostelium.
OX NCBI_TaxID=44689;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=AX4;
RX MEDLINE=22092622; PubMed=12097910; DOI=10.1038/nature00847;
RA Gloeckner G., Eichinger L., Szafranski K., Pachebat J., Dear P., Lehmann R., Baumgart C., Parra G., April J.F., Guigo R., Kumpf K., Tungal B., Cox E., Quail M.A., Platzer M., Rosenthal A., Noegel A.A.;
RT "Sequence and analysis of chromosome 2 of Dictyostelium discoideum";
RL Nature 418:79-85 (2002).
RN [2]
RP SEQUENCE FROM N.A.
RC STRAIN=AX4;
RA Baumgart C.;
RL Submitted (MAR-2003) to the EMBL/GenBank/DBJ databases.
DR EMBL; AC116986; AA051856.1; -;
DR DictyBase; DDB0168226; JCV2_0_00892.
DR InterPro; IPR008654; IWS1_C.
DR Pfam; PF05909; IWS1_C; 1.
KW Hypothetical protein.
SQ SEQUENCE 648 AA; 73372 MW; 2879FE40FCD76D3E CRC64;

Query Match 3.4%; Score 15; DB 2; Length 648;

Best Local Similarity 100.0%; Pred. No. 6.9e-05;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 338 PPTTTTTTTTTTTT 352
DB 130 PPTTTTTTTTTTTT 144

RESULT 40

Q86AG0 PRELIMINARY; PRT; 1015 AA.
AC Q86AG0;
DT 01-JUN-2003 (TrEMBLrel. 24, Created)
DT 01-JUN-2003 (TrEMBLrel. 24, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE Similar to Dictyostelium discoideum (Slime mold). Histidine kinase DnKc.
OS Dictyostelium discoideum (Slime mold).
OC Eukaryota; Mycetozoa; Dictyosteliida; Dictyostelium.
OX NCBI_TaxID=44689;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=AX4;
RX MEDLINE=22092622; PubMed=12097910; DOI=10.1038/nature00847;
RA Gloeckner G., Eichinger L., Szafranski K., Pachebat J., Dear P., Lehmann R., Baumgart C., Parra G., April J.F., Guigo R., Kumpf K., Tungal B., Cox E., Quail M.A., Platzer M., Rosenthal A., Noegel A.A.;
RT "Sequence and analysis of chromosome 2 of Dictyostelium discoideum";
RL Nature 418:79-85 (2002).
RN [2]
RP SEQUENCE FROM N.A.
RC STRAIN=AX4;
RA Baumgart C.;
RL Submitted (MAR-2003) to the EMBL/GenBank/DBJ databases.
DR EMBL; AC115594; AA051537.1; -;
DR GO; GO:0016301; F:kinase activity; IEA.
KW Kinase.
SQ SEQUENCE 1015 AA; 116816 MW; 58CF6693543381A8 CRC64;

Query Match 3.4%; Score 15; DB 2; Length 1015;
Best Local Similarity 100.0%; Pred. No. 0.0001;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 338 PPTTTTTTTTTTTT 352
DB 552 PPTTTTTTTTTTTT 566

RESULT 41

Q6TUI3 PRELIMINARY; PRT; 58 AA.
AC Q6TUI3;
DT 05-JUL-2004 (TrEMBLrel. 27, Created)
DT 05-JUL-2004 (TrEMBLrel. 27, Last sequence update)
DT 05-JUL-2004 (TrEMBLrel. 27, Last annotation update)
DE LRGR00061.
OS Rattus norvegicus (Rat).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.
OX NCBI_TaxID=10116;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=Sprague-Dawley;
RA Xu C.S., Chang C.F., Han H.P., Wang G.P., Chai L.O., Yuan J.Y., Yang K.J., Zhao L.F., Ma H., Wang L., Wang S.F., Xing X.K., Shen G.M., Shi J.B., Rahman S., Wang Q.N., Zhang J.B.;
RL Submitted (SEP-2003) to the EMBL/GenBank/DBJ databases.
DR EMBL; AY387047; AAQ91017.1; -;
SQ SEQUENCE 58 AA; 6466 MW; DEA36599EB327F47 CRC64;

Query Match 3.2%; Score 14; DB 2; Length 58;
Best Local Similarity 100.0%; Pred. No. 7.6e-05;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

Qy 341 TTTT TTTT TTTT TTTT TTTT I 354
Db 34 TTTT TTTT TTTT TTTT TTTT I 47

RESULT 42
O61050 PRELIMINARY; PRT; 107 AA.
AC O61050;
DT 01-AUG-1998 (TrEMBLrel. 07, Created)
DT 01-AUG-1998 (TrEMBLrel. 07, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE Mucin-like protein (Fragment).
GN Name=EMUCT-9;
OS Trypanosoma cruzi.
OC Eukaryota; Euklenozoa; Kinetoplastida; Trypanosomatidae; Trypanosoma.
OX NCBI_TaxID=5693;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=Ci-Brenner;
RX MEDLINE=98225151; PubMed=9556557; DOI=10.1074/jbc.273.18.10843;
RA Di Nola J.M., D'Orso I., Aslund L., Sanchez D.O., Frasch A.C.;
RT "The Trypanosoma cruzi mucin family is transcribed from hundreds of
RT genes having hypervariable regions";
RL J. Biol. Chem. 273.10843-10850(1998).
DR EMBL; AF036454; AAC14251.1; -.
DR InterPro; IPR000458; Tryp_mucin.
DR Pfam; PF01456; Mucin; 1.
FT NON TER 107
FT SEQUENCE 107 AA; 10986 MW; 26E2947FD6EB06D2 CRC64;

Query Match 3.2%; Score 14; DB 2; Length 107;
Best Local Similarity 100.0%; Pred. No. 0.00013;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 339 PPTTTT TTTT TTTT TTTT TTTT I 352
Db 53 PPTTTT TTTT TTTT TTTT TTTT I 66

RESULT 43
O962W6 PRELIMINARY; PRT; 216 AA.
AC O962W6;
DT 01-DEC-2001 (TrEMBLrel. 19, Created)
DT 01-DEC-2001 (TrEMBLrel. 19, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE Mucin-like protein MUC-loc2.
OS Trypanosoma cruzi.
OC Eukaryota; Euklenozoa; Kinetoplastida; Trypanosomatidae; Trypanosoma.
OX NCBI_TaxID=5693;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=Ci-Brenner;
RA Di Nola J.M., Frasch A.C.C.;
RL Submitted (JUL-2001) to the EMBL/GenBank/DBJ databases.
DR EMBL; AF398551; AAK94014.1; -.
DR InterPro; IPR000458; Tryp_mucin.
DR Pfam; PF01456; Mucin; 1.
FT NON TER 216
FT SEQUENCE 216 AA; 21815 MW; 01C85738541BB6C6 CRC64;

Query Match 3.2%; Score 14; DB 2; Length 216;
Best Local Similarity 100.0%; Pred. No. 0.00023;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 340 PTTT TTTT TTTT TTTT TTTT I 353
Db 158 PTTT TTTT TTTT TTTT TTTT I 171

RESULT 44
YOOB CAEEL

```

```

ID YOOB CAEEL STANDARD; PRT; 304 AA.
AC Q09300;
DT 01-NOV-1997 (Rel. 35, Created)
DT 01-NOV-1997 (Rel. 35, Last sequence update)
DT 25-OCT-2004 (Rel. 45, Last annotation update)
DE Hypothetical protein EED8.11 in chromosome II precursor.
GN ORFNames=EED8.11;
OS Caenorhabditis elegans.
OC Eukaryota; Metazoa; Nematoda; Chromadorea; Rhabditida; Rhabditoidea;
OC Rhabditidae; Peloderinae; Caenorhabditis.
OX NCBI_TaxID=6239;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=Bristol N2;
RX MEDLINE=99089613; PubMed=9851916;
RT The C. elegans sequencing consortium;
RT "Genome sequence of the nematode C. elegans: a platform for
RT investigating biology.";
RL Science 282.2012-2018(1998).
CC -!- SIMILARITY: Some, to C.elegans R13F6.2 and R13F6.8.

-----
CC This SWISS-PROT entry is copyright. It is produced through a collaboration
CC between the Swiss Institute of Bioinformatics and the EMBL outstation -
CC the European Bioinformatics Institute. There are no restrictions on its
CC use by non-profit institutions as long as its content is in no way
CC modified and this statement is not removed. Usage by and for commercial
CC entities requires a license agreement (See http://www.isb-sib.ch/announce/
CC or send an email to license@sib-sib.ch).
-----
DR EMBL; U23484; AAC46771.1; -.
DR PIR; T15922; T15922.1; EED8.11.
DR Wormbase; WBGene00017139; EED8.11.
DR Wormpep; EED8.11; CE01884.
DR InterPro; IPR001304; Lectin_C.
DR SMART; SM00034; CLECT; 1.
DR Hypothetical protein; Signal.
KW SIGNAL 1 19 Potential.
FT CHAIN 20 304 Hypothetical protein EED8.11.
FT DOMAIN 64 92 Poly-Thr.
FT SEQUENCE 304 AA; 32982 MW; 60C223B88F534151 CRC64;

Query Match 3.2%; Score 14; DB 1; Length 304;
Best Local Similarity 100.0%; Pred. No. 0.00031;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 340 PTTT TTTT TTTT TTTT TTTT I 353
Db 67 PTTT TTTT TTTT TTTT TTTT I 80

RESULT 45
O8IMS9 PRELIMINARY; PRT; 341 AA.
ID O8IMS9
AC O8IMS9;
DT 01-MAR-2003 (TrEMBLrel. 23, Created)
DT 01-MAR-2003 (TrEMBLrel. 23, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE CG31439-PA.
GN ORFNames=CG31439;
OS Drosophila melanogaster (Fruit fly).
OC Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;
OC Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha;
OC Ephydroidea; Drosophilidae; Drosophila.
OX NCBI_TaxID=7227;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=20196006; PubMed=10731132; DOI=10.1126/science.287.5461.2185;
RA Adams M.D., Celniker S.E., Holt R.A., Evans C.A., Gocayne J.D.,
RA Amanatides P.G., Scherer S.E., Li P.W., Hoskins R.A., Galle R.F.,
RA George R.A., Lewis S.E., Richards S., Ashburner M., Henderson S.N.,
RA Sutton G.G., Wortman J.R., Vandal M.D., Zhang Q., Chen L.X.,
RA Brandon R.C., Rogers Y.H., Blazer J.G., Champe M., Pfeiffer B.D.,
RA Wan K.H., Doyle C., Baxter E.G., Helt G., Nelson C.R., Gabor G.L.,

```

RA Abril J.F., Agbayani A., An H.J., Andrews-Pfannkuch C., Baldwin D.,
RA Ballew R.M., Basu A., Baxendale J., Bayraktaroglu L., Beasley E.M.,
RA Beeson K.Y., Benos P.V., Berman B.P., Bhandari D., Bolshakov S.,
RA Borkova D., Botchan M.R., Bouck J., Brokstein P., Brottier P.,
RA Burtis K.C., Buam D.A., Butler H., Cadieu E., Center A., Chandra I.,
RA Cherry J.M., Cawley S., Dahlke C., Davenport L.B., Davies P.,
RA de Pablos B., Delcher A., Deng Z., Mays A.D., Dew I., Dietz S.M.,
RA Dodson K., Doup L.E., Downes M., Dugan-Rocha S., Dunkov B.C., Dunn P.,
RA Durbin K.J., Evangelista C.C., Ferraz C., Ferreira S., Fleischmann W.,
RA Foster C., Gabriellian A.E., Garg N.S., Gelbart W.M., Glasser K.,
RA Glodok A., Gong F., Gorrell J.H., Gu Z., Guan P., Harris M.,
RA Harris N.L., Harvey D., Heiman T.J., Hernandez J.R., Houck J.,
RA Hostin D., Houston K.A., Howland T.J., Wei M.H., Ibegwam C.,
RA Jalali M., Kalush F., Karpen G.H., Ke Z., Kennison J.A., Ketchum K.A.,
RA Kimmel B.E., Kodira C.D., Kraft C., Kravitz S., Kulp D., Lai Z.,
RA Laoko P., Lei Y., Levitsky A.A., Li J., Li Z., Liang Y., Lin X.,
RA Liu X., Mattei B., McIntosh T.C., McLeod M.P., McPherson D.,
RA Merkulov G., Milshina N.V., Mobarri C., Morris J., Moshrefi A.,
RA Mount S.M., Moy M., Murphy B., Murphy L., Muzny D.M., Nelson D.L.,
RA Nelson D.R., Nelson K.A., Nixon K., Nusskern D.R., Pacleb J.M.,
RA Palazzolo M., Pittman G.S., Pan S., Pollard J., Puri V., Reese M.G.,
RA Reinert K., Remington K., Saunders R.D., Scheeler F., Shen H.,
RA Shue B.C., Siden-Kiamos I., Simpson M., Skupski M.P., Smith T.,
RA Spier E., Spradling A.C., Stapleton M., Strong R., Sun E.,
RA Svirskaas R., Tector C., Turner R., Venter E., Wang A.H., Wang X.,
RA Wang Z.Y., Wassarman D.A., Weinstock G.M., Weissbach J.,
RA Williams S.M., Woodruff, Worley K.C., Wu D., Yang S., Yao Q.A., Ye J.,
RA Yeh R.F., Zaveri J.S., Zhan M., Zhang G., Zhao Q., Zheng L.,
RA Zheng X.H., Zhong F.N., Zhong W., Zhou X., Zhu S., Zhu X., Smith H.O.,
RA Gibbs R.A., Myers E.W., Rubin G.M., Venter J.C.;
RA "The genome sequence of *Drosophila melanogaster*.";
RA Science 287:2185-2195(2000).
RA [2]
RA SEQUENCE FROM N.A.
RX MEDLINE=22426065; PubMed=12537558;
RA Celniker S.E., Wheeler D.A., Kronmiller B., Carlson J.W., Halpern A.,
RA Patel S., Adams M., Champe M., Dugan S.P., Frise E., Hodgson A.,
RA George R.A., Hoskins R.A., Laverty T., Muzny D.M., Nelson C.R.,
RA Pacleb J.M., Park S., Pfeiffer B.D., Richards S., Sodergren E.J.,
RA Svirskaas R., Tabor P.E., Wan K., Stapleton M., Sutton G.G., Venter C.,
RA Weinstock G., Scherer S.E., Myers E.W., Gibbs R.A., Rubin G.M.;
RA "Finishing a whole-genome shotgun: Release 3 of the *Drosophila*
RA melanogaster euchromatic genome sequence.";
RA Genome Biol. 3:RESEARCH0079-RESEARCH0079(2002).
RA [3]
RA SEQUENCE FROM N.A.
RX MEDLINE=22426070; PubMed=12537573;
RA Kaminker J.S., Bergman C.M., Kronmiller B., Carlson J., Svirskaas R.,
RA Patel S., Frise E., Wheeler D.A., Lewis S.E., Rubin G.M.,
RA Ashburner M., Celniker S.E.;
RA "The transposable elements of the *Drosophila melanogaster* euchromatin:
RA a genomics perspective.";
RA Genome Biol. 3:RESEARCH0084-RESEARCH0084(2002).
RA [4]
RA SEQUENCE FROM N.A.
RX MEDLINE=22426069; PubMed=12537572;
RA Misra S., Crosby M.A., Mungall C.J., Matthews B.B., Campbell K.S.,
RA Hradecky P., Huang Y., Kaminker J.S., Millburn G.H., Prochnik S.E.,
RA Smith C.D., Tupy J.L., Whitfield E.J., Bayraktaroglu L., Berman B.P.,
RA Battencourt B.R., Celniker S.E., de Grey A.D., Drysdale R.A.,
RA Harris N.L., Richter J., Russo S., Schroeder A.J., Shu S.Q.,
RA Stapleton M., Yamada C., Ashburner M., Gelbart W.M., Rubin G.M.,
RA Lewis S.E.;
RA "Annotation of the *Drosophila melanogaster* euchromatic genome: a
RA systematic review.";
RA Genome Biol. 3:RESEARCH0083-RESEARCH0083(2002).
RA [5]
RA SEQUENCE FROM N.A.
RX FlyBase;
RA Submitted (SEP-2002) to the EMBL/GenBank/DBJ databases.
RA [6]
RA SEQUENCE FROM N.A.
RX FlyBase;

RL Submitted (MAR-2004) to the EMBL/GenBank/DBJ databases.
DR EMBL; AE003751; AAN14054.1; --
DR FlyBase; FBgn0051439; CG31439.
DR GO; GO:0005576; C:extracellular; IEA.
DR GO; GO:0008061; P:chitin binding; IEA.
DR GO; GO:0006030; P:chitin metabolism; IEA.
DR InterPro; IPR002557; Chitin bind PerA.
DR InterPro; IPR002125; dCMP/cyt_deam.
DR Pfam; PF01607; CBM 14; 1.
DR SMART; SM00494; CHED2; 1.
DR PROSITE; PS00940; CHIT_BIND_II; 1.
DR PROSITE; PS00903; CYT_DCMP_DEAMINASES; UNKNOWN_1.
SQ SEQUENCE 341 AA; 38627 MW; A935A06377885A15 CRC64;
Query Match 3.2%; Score 14; DB 2; Length 341;
Best Local Similarity 100.0%; Pred. No. 0.00034;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 340 PTTTTTTTTTTT 353
DB 170 PTTTTTTTTTTT 183
RESULT 46
Q7Q1R0 PRELIMINARY; PRT; 350 AA.
AC Q7Q1R0;
DT 01-MAR-2004 (TrEMBLrel. 26, Created)
DT 01-MAR-2004 (TrEMBLrel. 26, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE AgCP8129 (Fragment).
DE Name=agCG531199; ORFNames=ENGANGG00000007781;
OS Anopheles gambiae str. PEST.
OC Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;
OC Neoptera; Endopterygota; Diptera; Nematocera; Culicoidea; Anopheles.
OX NCBI_TaxID=180454;
RN [1]
RC STRAIN=PEST.
RC SEQUENCE FROM N.A.
RA Anopheles Genome Sequencing Consortium;
RL Submitted (MAR-2002) to the EMBL/GenBank/DBJ databases.
CC -!- CAUTION: The sequence shown here is derived from an
CC EMBL/GenBank/DBJ whole genome shotgun (WGS) entry which is
CC preliminary data.
DR EMBL; AAB01008980; EAA14126.1; --
DR GO; GO:0016020; C:membrane; IEA.
DR InterPro; IPR002000; Lamp.
DR PRINTS; PR00336; LYSASSOCTDMP.
DR PROSITE; PS00310; LAMP_1; UNKNOWN_1.
FT NON TER 1
SQ SEQUENCE 350 AA; 37565 MW; F4765CEF710FA9A0 CRC64;
Query Match 3.2%; Score 14; DB 2; Length 350;
Best Local Similarity 100.0%; Pred. No. 0.00035;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 340 PTTTTTTTTTTT 353
DB 79 PTTTTTTTTTTT 92
RESULT 47
Q7P221 PRELIMINARY; PRT; 356 AA.
AC Q7P221;
DT 01-MAR-2004 (TrEMBLrel. 26, Created)
DT 01-MAR-2004 (TrEMBLrel. 26, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE AgCP9900 (Fragment).
DE Name=agCG52059; ORFNames=ENGANGG000000015451;
OS Anopheles gambiae str. PEST.
OC Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;
OC Neoptera; Endopterygota; Diptera; Nematocera; Culicoidea; Anopheles.

OX NCBI_TaxID=180454;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC STRAIN=PEST;
 RA Anopheles Genome Sequencing Consortium;
 RL Submitted (MAR-2002) to the EMBL/GenBank/DBJ databases.
 CC -1- CAUTION: The sequence shown here is derived from an
 CC EMBL/GenBank/DBJ whole genome shotgun (WGS) entry which is
 CC preliminary data.
 DR EMBL; AAB01008986; EAA00798.1; -.
 FT NON TER 1 1
 FT NON TER 356 356
 SQ SEQUENCE 356 AA; 39404 MW; C51B095A700DEC22 CRC64;

Query Match 3.2%; Score 14; DB 2; Length 356;
 Best Local Similarity 100.0%; Pred. No. 0.00036;
 Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 340 PTTTTTTTTTTTTT 353
 Db 316 PTTTTTTTTTTTTT 329

RESULT 48

Q7S2P4 PRELIMINARY; PRT; 364 AA.
 AC Q7S2P4
 DT 01-MAR-2004 (TrEMBLrel. 26, Created)
 DT 01-MAR-2004 (TrEMBLrel. 26, Last sequence update)
 DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
 DE Hypothetical protein.
 GN Name=NCU09343.1;
 OS Neurospora crassa.
 OC Eukaryota; Fungi; Ascomycota; Pezizomycotina; Sordariomycetes;
 OC Sordariomycetidae; Sordariales; Sordariaceae; Neurospora.
 OX NCBI_TaxID=5141;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC STRAIN=OR74A;
 RA Galagan J.E., Calvo S.E., Borkovich K.A., Selker E.U., Read N.D.,
 RA Jaffe D., FitzHugh W., Ma L.-J., Smirnov S., Purcell S., Rehman B.,
 RA Elkins T., Engels R., Wang S., Nielsen C.B., Butler J., Endrizzi M.,
 RA Qui D., Ianakiev P., Pedersen D., Nelson M., Washburne M., Schulte U.,
 RA Seitzentrunkoff C.P., Kinsey J.A., Braun E.L., Zelter A., Barrett R.,
 RA Roy A., Foley K., Naylor J., Thomann N., Barrett R., Gnerre S.,
 RA Kamal M., Kanvyselis M., Mauceli E., Bielke C., Rudd S., Friseman D.,
 RA Krystofova S., Rasmussen C., Metzenberg R.L., Perkins D.D., Kroken S.,
 RA Cogoni C., Macino G., Catcheside D., Li W., Pratt R.J., Osmani S.A.,
 RA Desouza C.C., Glass L., Orbach M.J., Berglund J., Voelker R.,
 RA Yarden O., Plamann M., Seiler S., Dunlap J., Radford A., Aramayo R.,
 RA Natvig D.O., Alex L.A., Mannhaupt G., Ebbole D.J., Freitag M.,
 RA Paulsen I., Sachs M.S., Lander E.S., Nusbaum C., Birren B.,
 RT "The Genome Sequence of the Filamentous Fungus Neurospora crassa."
 RL Nature 0:0-0(2003).
 CC -1- CAUTION: The sequence shown here is derived from an
 CC preliminary data.
 CC EMBL/GenBank/DBJ whole genome shotgun (WGS) entry which is
 CC preliminary data.
 DR EMBL; AABX01000420; EAA29686.1; -.
 DR InterPro; IPR008547; DUF829.
 DR Pfam; PF05705; DUF829; 1.
 KW Hypothetical protein.
 SQ SEQUENCE 364 AA; 40946 MW; EC1DF588FE543738 CRC64;

Query Match 3.2%; Score 14; DB 2; Length 364;
 Best Local Similarity 100.0%; Pred. No. 0.00036;
 Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 340 PTTTTTTTTTTTTT 353
 Db 38 PTTTTTTTTTTTTT 51

RESULT 49

Q869R5 PRELIMINARY; PRT; 365 AA.
 ID Q869R5
 AC Q869R5
 DT 01-JUN-2003 (TrEMBLrel. 24, Created)
 DT 01-JUN-2003 (TrEMBLrel. 24, Last sequence update)
 DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
 DE Similar to Dictyostelium discoideum (Slime mold). Histidine
 DE kinase.
 OS Dictyostelium discoideum (Slime mold).
 OC Eukaryota; Mycetozoa; Dictyosteliida; Dictyostelium.
 OX NCBI_TaxID=44689;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC STRAIN=AX4;
 RC MEDLINE=22092622; PubMed=12097910; DOI=10.1038/nature00847;
 RA Gloeckner G., Eichinger L., Szafranski K., Pachebat J., Dear P.,
 RA Lehmann R., Baumgart C., Parra G., April J.F., Guigo R., Kumpf K.,
 RA Turggal B., Cox E., Quail M.A., Platzer M., Rosenthal A., Noegel A.A.,
 RT "Sequence and analysis of chromosome 2 of Dictyostelium discoideum."
 RL Nature 418:79-85(2002).
 RN [2]
 RP SEQUENCE FROM N.A.
 RC STRAIN=AX4;
 RA Baumgart C.;
 RL Submitted (MAR-2003) to the EMBL/GenBank/DBJ databases.
 DR EMBL; AC116957; AAO52509.1; -.
 DR GO; GO:0016301; F:kinase activity; IEA.
 KW Kinase.
 SQ SEQUENCE 365 AA; 39409 MW; 132DEB0383959196 CRC64;

Query Match 3.2%; Score 14; DB 2; Length 365;
 Best Local Similarity 100.0%; Pred. No. 0.00037;
 Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 340 PTTTTTTTTTTTTT 353
 Db 266 PTTTTTTTTTTTTT 279

RESULT 50

Q7Q956 PRELIMINARY; PRT; 445 AA.
 ID Q7Q956
 AC Q7Q956
 DT 01-MAR-2004 (TrEMBLrel. 26, Created)
 DT 01-MAR-2004 (TrEMBLrel. 26, Last sequence update)
 DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
 DE AGCP4397 (Fragment).
 GN Name=agCG50324; ORFNames=ENSANGG00000010153;
 OS Anopheles gambiae str. PEST.
 OC Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;
 OC Neoptera; Endopterygota; Diptera; Nematocera; Culicoides; Anopheles.
 OX NCBI_TaxID=180454;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC STRAIN=PEST;
 RA Anopheles Genome Sequencing Consortium;
 RL Submitted (MAR-2002) to the EMBL/GenBank/DBJ databases.
 CC -1- SIMILARITY: Belongs to peptidase family 51.
 CC -1- CAUTION: The sequence shown here is derived from an
 CC EMBL/GenBank/DBJ whole genome shotgun (WGS) entry which is
 CC preliminary data.
 DR EMBL; AAB01008905; EAA09700.1; -.
 DR HSSP; P08709; 1JBU.
 DR GO; GO:0004263; F:chymotrypsin activity; IEA.
 DR GO; GO:0008233; F:peptidase activity; IEA.
 DR GO; GO:0004295; F:trypsin activity; IEA.
 DR GO; GO:0006508; P:proteolysis and peptidolysis; IEA.
 DR InterPro; IPR001254; Peptidase S1.
 DR InterPro; IPR001314; Peptidase S1A.
 DR InterPro; IPR009003; Pept_Ser_Cys.
 DR Pfam; PF00089; Trypsin; 1.
 DR PRINTS; PR00722; CHYMOTRYPSIN.

```
DR PROSITE; PS00240; TRYPSIN DOM; 1.
DR PROSITE; PS00134; TRYPSIN HIS; UNKNOWN_1.
KW Hydrolase; Protease; Serine protease.
FT NON TER 1
SQ SEQUENCE 445 AA; 4897 MW; 48A34474F5414364 CRC64;

Query Match 3.2%; Score 14; DB 2; Length 445;
Best Local Similarity 100.0%; Pred. No. 0.00043;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 340 PTTTTTTTTTTTTT 353
DB 125 PTTTTTTTTTTTTT 138

RESULT 51
WR33_ARATH ID WR33_ARATH STANDARD; PRT; 512 AA.
AC Q8S8P5;
DT 10-OCT-2003 (Rel. 42, Last sequence update)
DT 10-OCT-2003 (Rel. 42, Last sequence update)
DE 05-JUL-2004 (Rel. 44, Last annotation update)
DE Probable WRKY transcription factor 33 (WRKY DNA-binding protein 33).
GN Name=WRKY33; OrderedLocustNames=At2g38470; ORFNames=TI9C21.4;
OS Arabidopsis thaliana (Mouse-ear cress).
OC Eukaryota; Viridiplantae; Magnoliophyta; Embryophyta; Tracheophyta;
OC Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; rosids;
OC eurosid II; Brassicales; Brassicaceae; Arabidopsi.
OX NCBI_TaxID=3702;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=cv. Columbia; TISSUE=flower;
RA Lippok B.; Somschik I.E.;
RT "Arabidopsis thaliana transcription factor WRKY33."
RL Submitted (MAY-2002) to the EMBL/GenBank/DBJ databases.
[2]
RP SEQUENCE FROM N.A.
RC STRAIN=cv. Columbia;
RX MEDLINE=20083487; PubMed=10617197; DOI=10.1038/45471;
RA Lin X., Kaul S., Rounalev S.D., Shea T.P., Benito M.-I., Town C.D.,
RA Fujii C.X., Mason T.M., Bowman C.L., Barnstead M.E., Feldblyum T.V.,
RA Buell C.R., Ketchum K.A., Lee J.J., Ronning C.M., Koo H.L.,
RA Moffat K.S., Cronin L.A., Shen M., Pai G., Van Aken S., Umayam L.,
RA Tallon L.J., Gill J.E., Adams M.D., Carrera A.J., Creasy T.H.,
RA Goodman H.M., Somerville C.R., Copenhaver G.P., Preuss D.,
RA Niernan W.C., White O., Eisen J.A., Salzberg S.L., Fraser C.M.,
RA Venter J.C.;
RT "Sequence and analysis of chromosome 2 of the plant Arabidopsis thaliana."
RL Nature 402:761-768(1999).
CC -1- FUNCTION: Transcription factor. Interacts specifically with the w box (5'-(TGAC(C/T)-3'), a frequently occurring elicitor-responsive cis-acting element (By similarity).
CC -1- SUBCELLULAR LOCATION: Nuclear (Probable).
CC -1- SIMILARITY: Belongs to the WRKY group I family.
CC -1- SIMILARITY: Contains 2 WRKY domains.
-----
CC This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation - the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/ or send an email to license@isb-sib.ch).
-----
CC EMBL; AF509499; AAM34736.1; -.
CC EMBL; AC004683; AAM14994.1; -.
DR PIR; T02498; T02498.
DR InterPro; IPR003657; WRKY.
DR Pfam; PF03106; WRKY 2.
DR PROSITE; PS00811; WRKY; 2.
KW DNA-binding; Nuclear protein; Repeat; Transcription regulation.
FT DOMAIN 123 135 Thr-rich.
```

```
FT DNA_BIND 171 235 WRKY 1.
FT DNA_BIND 349 414 WRKY 2.
FT DOMAIN 461 481 Asn-rich.
SQ SEQUENCE 512 AA; 56457 MW; 8F19CBB41BC18662 CRC64;

Query Match 3.2%; Score 14; DB 1; Length 512;
Best Local Similarity 100.0%; Pred. No. 0.00049;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 340 PTTTTTTTTTTTTT 353
DB 122 PTTTTTTTTTTTTT 135

RESULT 52
1A1C_DIACA ID 1A1C_DIACA STANDARD; PRT; 517 AA.
AC P27486;
DT 01-AUG-1992 (Rel. 23, Created)
DT 01-AUG-1992 (Rel. 23, Last sequence update)
DE 05-JUL-2004 (Rel. 44, Last annotation update)
DE 1-aminocyclopropane-1-carboxylate synthase (EC 4.4.1.14) (ACC synthase) (S-adenosyl-L-methionine methylthioadenosine-lyase).
GN Name=ACS2; Synonyms=CARACC;
OS Dianthus caryophyllus (Carnation) (Clove pink).
OC Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
OC Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots;
OC Caryophyllales; Caryophyllaceae; Dianthus.
OX NCBI_TaxID=3570;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=Petal;
RX MEDLINE=92119258; PubMed=1731995;
RA Park K.Y., Drory A., Woodson W.R.;
RT "Molecular cloning of an 1-aminocyclopropane-1-carboxylate synthase from senescing carnation flower petals."
RL Plant Mol. Biol. 18:377-386(1992).
CC -1- FUNCTION: Catalyzes the formation of 1-aminocyclopropane-1-carboxylate, a direct precursor of ethylene in higher plants.
CC -1- CATALYTIC ACTIVITY: S-adenosyl-L-methionine = 1-aminocyclopropane-1-carboxylate + methylthioadenosine.
CC -1- COFACTOR: Pyridoxal phosphate.
CC -1- PATHWAY: Ethylene biosynthesis; first (rate-limiting) step.
CC -1- SUBUNIT: Homodimer.
CC -1- SIMILARITY: Belongs to the class-I pyridoxal-phosphate-dependent aminotransferase family.
-----
CC This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation - the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/ or send an email to license@isb-sib.ch).
-----
CC EMBL; M66619; AAA33275.1; -.
CC PIR; S19252; S19252.
DR HSP; P18485; I1AX.
DR InterPro; IPR001176; ACC synthase.
DR InterPro; IPR004839; Aminotransf_1/11.
DR InterPro; IPR004838; Nhrtransf_1_BS.
DR Pfam; PF00155; Aminotran_1_2; 1.
DR PRINTS; PR00753; ACCSYNTHASE.
DR PROSITE; PS00105; AA TRANSFER CLASS 1; 1.
KW Ethylene biosynthesis; Fruit ripening; Lyase; Multigene family;
KW Pyridoxal phosphate.
FT BINDING 277 277 Pyridoxal phosphate (By similarity).
FT DOMAIN 453 470 Poly-Thr.
SQ SEQUENCE 517 AA; 58057 MW; C31BA10732E940AE CRC64;

Query Match 3.2%; Score 14; DB 1; Length 517;
Best Local Similarity 100.0%; Pred. No. 0.00049;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy 341 TTTT TTTT TTTT TTTT TTTT 354
Db 458 TTTT TTTT TTTT TTTT TTTT 471

RESULT 53
Q43753 PRELIMINARY; PRT; 518 AA.
ID Q43753
AC Q43753
DT 01-NOV-1996 (TrEMBLrel. 01, Created)
DT 01-NOV-1996 (TrEMBLrel. 01, Last sequence update)
DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
DE 1-aminocyclopropane 1-carboxylate synthase (EC 4.4.1.14).
OS Dianthus caryophyllus (Carnation) (Clove pink).
OC Eukaryota; Viridiplantae; Streptophyta; Tracheophyta;
OC Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots;
OC Caryophyllales; Caryophyllaceae; Dianthus.
OX NCBI_TaxID=3570;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=Petal;
RA Michael M.Z.;
RL Submitted (DEC-1992) to the EMBL/GenBank/DBJ databases.
DR EMBL: Z18952; CAA79477.1; -.
DR PIR: S31442; S31442.
DR HSP; P18485; I1AX.
DR GO: GO:0016847; F:1-aminocyclopropane-1-carboxylate synthase . . . ; IEA.
DR GO: GO:0016829; F:lyase activity; IEA.
DR GO: GO:0008483; P:transaminase activity; IEA.
DR GO: GO:0009058; P:biogenesis; IEA.
DR InterPro: IPR001176; ACC_synthase.
DR InterPro: IPR004839; Aminotrans_I/II.
DR InterPro: IPR004838; Ntrtransf_1_BS.
DR Pfam: PF001155; Aminotran_1_2; 1.
DR PRINTS: PR00753; ACCSYNTHASE.
DR PROSITE: PS00105; AA_TRANSFER_CLASS_1; 1.
KW Lyase.
SQ SEQUENCE 518 AA; 58003 MW; EF8B8BCF03A493E CRC64;

Query Match 3.2%; Score 14; DB 2; Length 518;
Best Local Similarity 100.0%; Pred. No. 0.00049;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 341 TTTT TTTT TTTT TTTT TTTT 354
Db 459 TTTT TTTT TTTT TTTT TTTT 472

RESULT 54
Q7YYYO PRELIMINARY; PRT; 667 AA.
ID Q7YYYO
AC Q7YYYO
DT 01-OCT-2003 (TrEMBLrel. 25, Created)
DT 01-OCT-2003 (TrEMBLrel. 25, Last sequence update)
DE Hypothetical protein.
GN ORFNames=IMB.826;
OS Cryptosporidium parvum.
OC Eukaryota; Alveolata; Apicomplexa; Coccidia; Eimeriida;
OC Cryptosporidiidae; Cryptosporidium.
OX NCBI_TaxID=5807;
RN [1]
RP SEQUENCE FROM N.A.
RA Bankier A.T.; Spriggs H.F.; Fartmann B.; Konfortov B.A.; Madera M.;
RA Vogel C.; Teichmann S.A.; Ivens A.; Dear P.H.;
RT "Integrated mapping, chromosomal sequencing and sequence analysis of
RL Genome Res. 0:0-0(2003).
DR EMBL: BX538353; CAD98350.1; -.
DR InterPro: IPR000458; TYP_mucin.
DR Pfam: PF01456; Mucin; 1.
KW Hypothetical protein.

SQ SEQUENCE 667 AA; 73337 MW; 92F583112C839992 CRC64;

Query Match 3.2%; Score 14; DB 2; Length 667;
Best Local Similarity 100.0%; Pred. No. 0.00061;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 340 TTTT TTTT TTTT TTTT TTTT 353
Db 541 TTTT TTTT TTTT TTTT TTTT 554

RESULT 55
Q8ULH5 PRELIMINARY; PRT; 717 AA.
ID Q8ULH5
AC Q8ULH5
DT 01-JUN-2002 (TrEMBLrel. 21, Created)
DT 01-JUN-2002 (TrEMBLrel. 21, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE Putative chitinase.
GN OrderedLocNames=PF1233;
OS Pyrococcus furiosus.
OC Archaea; Euryarchaeota; Thermococci; Thermococcales; Thermococcaceae;
OC Pyrococcus.
OX NCBI_TaxID=2261;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=Vc1 / DSM 3638 / ATCC 43587 / JCM 8422;
RA Weiss R.B.; Dunn D.M.; Robb F.T.; Brown J.R.;
RT "The complete sequence of the Pyrococcus furiosus genome." ;
RL Submitted (FEB-2002) to the EMBL/GenBank/DBJ databases.
DR EMBL: AE010230; AAL81357.1; -.
DR HSP; Q13231; ILG2.
DR GO: GO:0016787; F:hydrolase activity; IEA.
DR GO: GO:0004553; F:hydrolase activity, hydrolyzing O-glycosyl . . . ; IEA.
DR GO: GO:0005975; P:carbohydrate metabolism; IEA.
DR GO: GO:0008152; P:metabolism; IEA.
DR Pfam: PF00553; CBM_2; 1.
DR Pfam: PF00704; Glyco_Hydro_18; 1.
DR SMART: SM00637; CBD_II; 1.
KW Complete proteome.
SQ SEQUENCE 717 AA; 78635 MW; FBCB55B9C850E38B CRC64;

Query Match 3.2%; Score 14; DB 2; Length 717;
Best Local Similarity 100.0%; Pred. No. 0.00065;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 340 TTTT TTTT TTTT TTTT TTTT 353
Db 235 TTTT TTTT TTTT TTTT TTTT 248

RESULT 56
Q9V515 PRELIMINARY; PRT; 746 AA.
ID Q9V515
AC Q9V515
DT 01-MAY-2000 (TrEMBLrel. 13, Created)
DT 01-MAY-2000 (TrEMBLrel. 13, Last sequence update)
DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
DE CG8181-PA.
GN ORFNames=CG8181;
OS Drosophila melanogaster (Fruit fly).
OC Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;
OC Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha;
OC Ephydroidea; Drosophilidae; Drosophila.
OX NCBI_TaxID=7227;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=20196006; PubMed=10731132; DOI=10.1126/science.287.5461.2185;
RA Adams M.D.; Celnik S.E.; Holt R.A.; Evans C.A.; Gocayne J.D.;
RA Anantides P.G.; Scherer S.E.; Li P.W.; Hoskins R.A.; Galle R.F.;
RA George R.A.; Lewis S.E.; Richards S.; Ashburner M.; Henderson S.N.;
RA Sutton G.G.; Wortman J.R.; Yandell M.D.; Zhang Q.; Chen L.X.; D.,
RA Brandon R.C.; Rogers Y.H.; Blazej R.G.; Champe M.; Pfeiffer B.D.,
```


RA Wan K.H., Doyle C., Baxter E.G., Helt G., Nelson C.R., Gabor G.L.,
 RA Abril J.F., Agbayani A., An H.J., Andrews-Pfankoch C., Baldwin D.,
 RA Balow R.M., Baqu A., Baxendale J., Bayraktaroglu L., Beasley E.M.,
 RA Beeson K.Y., Benos P.V., Berman B.P., Bhandari D., Bolehakov S.,
 RA Borkova D., Botchan M.R., Bouck J., Brokstein P., Brotter P.,
 RA Burtis K.C., Busan D.A., Butler H., Cadieu E., Center A., Chandra I.,
 RA Cherry J.M., Cawley S., Dahlke C., Davenport L.B., Davies P.,
 RA de Pablo B., Delcher A., Deng Z., Mays A.D., Dew I., Dietz S.M.,
 RA Dodson K., Doup L.E., Downes M., Dugan-Rocha S., Dunkov B.C., Dunn P.,
 RA Durbin K.J., Evangelista C.C., Ferraz C., Ferriera S., Fleischmann W.,
 RA Foster C., Gabriellian A.E., Garg N.S., Gelbart W.M., Glasser K.,
 RA Glodek A., Gong F., Gorrell J.H., Gu Z., Guan P., Harris M.,
 RA Harris N.L., Harvey D., Heiman T.J., Hernandez J.R., Houck J.,
 RA Hostin D., Houston K.A., Howland T.J., Wei M.H., Ibegwan C.,
 RA Jalali M., Kalush F., Karpen G.H., Ke Z., Kennison J.A., Ketchum K.A.,
 RA Kimmel B.E., Kodira C.D., Kraft C., Kravitz S., Kulp D., Lai Z.,
 RA Lasko P., Lei Y., Levitsky A.A., Li J., Li Z., Liang Y., Lin X.,
 RA Liu X., Mattei B., McIntosh T.C., McLeod M.P., McPherson D.,
 RA Merkulov G., Milshina N.V., Mobarry C., Morris J., Moshrefi A.,
 RA Mount S.M., Moy M., Murphy B., Murphy L., Muzny D.M., Nelson D.L.,
 RA Nelson D.R., Nelson K.A., Nixon K., Nuskern D.R., Pacleb J.M.,
 RA Palazzolo M., Pittman G.S., Pan S., Pollard J., Puri V., Reese M.G.,
 RA Reinert K., Remington K., Saunders R.D., Scheeler F., Shen H.,
 RA Shue B.C., Siden-Kiamos I., Simpson M., Skupski M.P., Smith T.,
 RA Spier E., Spradling A.C., Stapleton M., Strong R., Sun E.,
 RA Svirskas R., Tector C., Turner R., Venter E., Wang A.H., Wang X.,
 RA Wang Z.Y., Wassarman D.A., Weinstein G.M., Weissenbach J.,
 RA Williams S.M., Woodgett, Worley K.C., Wu D., Yang S., Yao Q.A., Ye J.,
 RA Yeh R.F., Zaveri J.S., Zhan M., Zhang G., Zhao Q., Zheng L.,
 RA Zheng X.H., Zhong F.N., Zhong W., Zhou X., Zhu S., Smith H.O.,
 RA Gibbs R.A., Myers E.W., Rubin G.M., Venter J.C.;
 RA "The genome sequence of *Drosophila melanogaster*.";
 RL Science 287:2185-2195(2000).
 RN [2]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=22426065; PubMed=12537568;
 RA Celniker S.E., Wheeler D.A., Kronmiller B., Carlson J.W., Halpern A.,
 RA Patel S., Adams M., Champe M., Dugan S.P., Frise E., Hodgson A.,
 RA George R.A., Hoskins R.A., Laverty T., Muzny D.M., Nelson C.R.,
 RA Pacleb J.M., Park S., Pfeiffer B.D., Richards S., Sodergren E.J.,
 RA Svirskas R., Tabor P.E., Wan K., Stapleton M., Sutton G.G., Venter C.,
 RA Weinstein G., Scherer S.E., Myers E.W., Gibbs R.A., Rubin G.M.;
 RT "Finishing a whole-genome shotgun: Release 3 of the *Drosophila*
 RT melanogaster euchromatic genome sequence.";
 RL Genome Biol. 3:RESEARCH0079-RESEARCH0079(2002).
 RN [3]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=22426070; PubMed=12537573;
 RA Kaminker J.S., Bergman C.M., Kronmiller B., Carlson J., Svirskas R.,
 RA Patel S., Frise E., Wheeler D.A., Lewis S.E., Rubin G.M.,
 RA Ashburner M., Celniker S.E.;
 RT "The transposable elements of the *Drosophila melanogaster* euchromatin:
 RT a genomic perspective.";
 RL Genome Biol. 3:RESEARCH0084-RESEARCH0084(2002).
 RN [4]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=22426069; PubMed=12537572;
 RA Misra S., Crosby M.A., Mungall C.J., Matthews B.B., Campbell K.S.,
 RA Hradecky P., Huang Y., Kaminker J.S., Millburn G.H., Prochnik S.E.,
 RA Smith C.D., Tupy J.L., Whitfield E.J., Bayraktaroglu L., Berman B.P.,
 RA Bettencourt B.R., Celniker S.E., de Grey A.D., Drysdale R.A.,
 RA Harris N.L., Richter J., Russo S., Schroeder A.J., Shu S.Q.,
 RA Stapleton M., Yamada C., Ashburner M., Gelbart W.M., Rubin G.M.,
 RA Lewis S.E.;
 RT "Annotation of the *Drosophila melanogaster* euchromatic genome: a
 RT systematic review.";
 RL Genome Biol. 3:RESEARCH0083-RESEARCH0083(2002).
 RN [5]
 RP SEQUENCE FROM N.A.
 RG FLYBase;
 RL Submitted (SEP-2002) to the EMBL/GenBank/DBJ databases.
 RN [6]
 RP SEQUENCE FROM N.A.

RG FLYBase;
 RL Submitted (MAR-2004) to the EMBL/GenBank/DBJ databases.
 DR EMBL; AS003835; AAF59007.1; -;
 DR FLYBase; FBgn0033361; CG8181.
 SQ SEQUENCE 746 AA; 78593 MW; FB6F9F8DA3027334 CRC64;
 Query Match 3.2%; Score 14; DB 2; Length 746;
 Best Local Similarity 100.0%; Pred. No. 0.00067;
 Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 340 PTTTTTTTTTTTTT 353
 DB 435 PTTTTTTTTTTTTT 448
 RESULT 57
 Q23916 PRELIMINARY; PRT; 860 AA.
 AC Q23916;
 DT 01-NOV-1996 (TrEMBLrel. 01, Created)
 DT 01-NOV-1996 (TrEMBLrel. 01, Last sequence update)
 DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
 DE Hypothetical protein mkcA.
 GN Names=mkcA;
 OS Dictyostelium discoideum (Slime mold).
 OC Eukaryota; Mycetozoa; Dictyosteliida; Dictyostelium.
 OX NCBI_TaxID=44689;
 RN [1]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=97140317; PubMed=8986798; DOI=10.1073/pnas.93.26.15260;
 RA Shaulsky G., Escalante R., Loomis W.F.;
 RT "Developmental signal transduction pathways uncovered by genetic
 RT suppressors.";
 RL Proc. Natl. Acad. Sci. U.S.A. 93:15260-15265(1996).
 DR EMBL; U60169; AAB03507.1; -;
 DR HSSP; Q13153; 1F3M.
 DR DictYBase; DDB0191179; mkcA.
 DR GO; GO:0005524; F:ATP binding; IEA.
 DR GO; GO:0004674; F:protein serine/threonine kinase activity; IEA.
 DR GO; GO:0004713; F:protein-tyrosine kinase activity; IEA.
 DR GO; GO:0016740; F:transferase activity; IEA.
 DR GO; GO:0006468; P:protein amino acid phosphorylation; IEA.
 DR InterPro; IPR011009; Kinase like.
 DR InterPro; IPR000719; Prot kinase.
 DR InterPro; IPR002290; Ser Thr kinase.
 DR InterPro; IPR008271; Ser Thr_pkin_AS.
 DR InterPro; IPR001245; Tyr_kinase; 1.
 DR Pfam; PF00069; Pkinase; 1.
 DR PRINTS; PR00109; TYRKINASE.
 DR ProDom; PD000001; Prot kinase; 1.
 DR SMART; SM00220; S_TKC; 1.
 DR PROSITE; PS00107; PROTEIN_KINASE_ATP; UNKNOWN_1.
 DR PROSITE; PS00111; PROTEIN_KINASE_DOM; 1.
 DR PROSITE; PS00108; PROTEIN_KINASE_ST; UNKNOWN_1.
 KW ATP-binding; Hypothetical protein; Kinase; Transferase.
 SQ SEQUENCE 860 AA; 97812 MW; 20AED8C8182DC21 CRC64;
 Query Match 3.2%; Score 14; DB 2; Length 860;
 Best Local Similarity 100.0%; Pred. No. 0.00076;
 Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 339 PTTTTTTTTTTTTT 352
 DB 268 PTTTTTTTTTTTTT 281
 RESULT 58
 Q26257 PRELIMINARY; PRT; 872 AA.
 AC Q26257;
 DT 01-NOV-1996 (TrEMBLrel. 01, Created)
 DT 01-NOV-1998 (TrEMBLrel. 08, Last sequence update)
 DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)

DE Rep protein.
GN Name=REP;
OS Dictyostelium giganteum.
OC Plasmid Ddp1.
OC Eukaryota; Mycetozoa; Dictyosteliida; Dictyostelium.
OX NCBI_TaxID=5787;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=DG61;
RX MEDLINE=98139494; PubMed=9472083;
RA Shamat I.M., Gonzales C., Welker D.L.;
RT "Dictyostelium discoideum nuclear plasmid Ddp6 is a new member of the
RL Ddp2 plasmid family.";
RN Curr. Genet. 33:77-82(1998).
RN [2]
RP SEQUENCE FROM N.A.
RC STRAIN=DG61;
RX MEDLINE=99189343; PubMed=10087212; DOI=10.1006/plas.1998.1385;
RA Gonzales C.M., Spencer T.D., Pendley S.S., Welker D.L.;
RT "Dgp1 and Dfp1 are closely related plasmids in the Dictyostelium Ddp2
RL plasmid family.";
RN Plasmid 41:89-96(1999).
RN [3]
RP SEQUENCE FROM N.A.
RC STRAIN=DG61;
RX MEDLINE=92390516;
RA Yin Y., Welker D.L.;
RT "Dictyostelium giganteum plasmid Dgp1 is a member of the Ddp2 plasmid
RL family.";
RN Plasmid 28:37-45(1992).
DR EMBL; U94491; AAC33153.1; -.
DR PIR; PQ0444; PQ0444.
DR InterPro; IPR007778; Dict_REP.
DR Pfam; PF05086; Dicty_REP; 1.
KW Plasmid.
SQ SEQUENCE 872 AA; 101038 MW; A98F6817567CDE3B CRC64;

Query Match 3.2%; Score 14; DB 2; Length 872;
Best Local Similarity 100.0%; Pred. No. 0.00077;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 340 PTTTTTTTTTTTTT 353
DB 259 PTTTTTTTTTTTTT 272

RESULT 59
O76535 PRELIMINARY; PRT; 874 AA.
AC O76535;
DT 01-NOV-1998 (TrEMBLrel. 08, Created)
DT 01-NOV-1998 (TrEMBLrel. 08, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE Rep protein.
GN Name=rep;
OS Dictyostelium firmibasis.
OG Plasmid Dfp1.
OC Eukaryota; Mycetozoa; Dictyosteliida; Dictyostelium.
OX NCBI_TaxID=79012;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=CR II 2B;
RX MEDLINE=99189343; PubMed=10087212; DOI=10.1006/plas.1998.1385;
RA Gonzales C.M., Spencer T.D., Pendley S.S., Welker D.L.;
RT "Dgp1 and Dfp1 are closely related plasmids in the Dictyostelium Ddp2
RL plasmid family.";
RN Plasmid 41:89-96(1999).
DR EMBL; AF076279; AAC33156.1; -.
DR InterPro; IPR007778; Dict_REP.
DR Pfam; PF05086; Dicty_REP; 1.
KW Plasmid.
SQ SEQUENCE 874 AA; 100695 MW; CC632152A4C09B1D CRC64;

Query Match 3.2%; Score 14; DB 2; Length 874;
Best Local Similarity 100.0%; Pred. No. 0.00077;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 340 PTTTTTTTTTTTTT 353
DB 259 PTTTTTTTTTTTTT 272

RESULT 60
ID Q23913 PRELIMINARY; PRT; 887 AA.
AC Q23913;
DT 01-NOV-1996 (TrEMBLrel. 01, Created)
DT 01-NOV-1996 (TrEMBLrel. 01, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE Rep protein.
GN Name=rep;
OS Dictyostelium discoideum (Slime mold).
OC Eukaryota; Mycetozoa; Dictyosteliida; Dictyostelium.
OX NCBI_TaxID=44689;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=WS380B;
RX MEDLINE=91172902; PubMed=2077544;
RA Slade M.B., Chang A.C.M., Williams K.L.;
RT "The sequence and organisation of ddp2, a high copy number plasmid of
RL Dictyostelium discoideum.";
RN Plasmid 24:195-207(1990).
RN [2]
RP SEQUENCE FROM N.A.
RC STRAIN=WS380B;
RX MEDLINE=91172903; PubMed=2077545;
RA Chang A.C.M., Slade M.B., Williams K.L.;
RT "Identification of the origin of replication of the eukaryote
RL Plasmid 24:208-217(1990).
DR EMBL; X51478; CAA35843.1; -.
DR DictyBase; DDB0001833; Ddp2-rep.
DR InterPro; IPR007778; Dict_REP.
DR Pfam; PF05086; Dicty_REP; 1.
SQ SEQUENCE 887 AA; 100809 MW; 478B68C4E500F470 CRC64;

Query Match 3.2%; Score 14; DB 2; Length 887;
Best Local Similarity 100.0%; Pred. No. 0.00078;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 340 PTTTTTTTTTTTTT 353
DB 250 PTTTTTTTTTTTTT 263

RESULT 61
ID Q23895 PRELIMINARY; PRT; 889 AA.
AC Q23895;
DT 01-NOV-1996 (TrEMBLrel. 01, Created)
DT 01-NOV-1996 (TrEMBLrel. 01, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE Trans-acting factor.
OS Dictyostelium discoideum (Slime mold).
OC Eukaryota; Mycetozoa; Dictyosteliida; Dictyostelium.
OX NCBI_TaxID=44689;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=WS380B;
RX MEDLINE=90287164; PubMed=2192261;
RA Leiting B., Lindner I.J., Noegle A.A.;
RT "The extrachromosomal replication of Dictyostelium plasmid Ddp2
RL requires a cis-acting element and a plasmid-encoded trans-acting
RT factor.";
RN Mol. Cell. Biol. 10:3727-3736(1990).
DR EMBL; M55298; AAA33191.1; -.

```

DR PIR; A35679; A35679.
DR DictyBase; DDB0001833; Ddb2-rep.
DR InterPro; IPR007778; Dict REP.
DR Pfam; PF05086; Dicty REP; 1.
SQ SEQUENCE 889 AA; 101055 MW; 0C96F120D830F544 CRC64;

Query Match 3.2%; Score 14; DB 2; Length 889;
Best Local Similarity 100.0%; Pred. No. 0.00078;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 340 PTTTTTTTTTTTTT 353
Db 250 PTTTTTTTTTTTTT 263

RESULT 62
Q86A69
AC Q86A69 PRELIMINARY; PRT; 895 AA.
DT 01-JUN-2003 (TrEMBLrel. 24, Created)
DT 01-JUN-2003 (TrEMBLrel. 24, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE Similar to Arabidopsis thaliana (Mouse-ear cross). Hypothetical 79.2
DE kba protein.
OS Dictyostelium discoideum (Slime mold).
OC Eukaryota; Mycetozoa; Dictyosteliida; Dictyostelium.
OX NCBI_TaxID=44689;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=AX4;
RC Submitted (MAR-2003) to the EMBL/GenBank/DBJ databases.
RA Gloeckner G., Eichinger L., Szafranski K., Pachebat J., Dear P.,
RA Lehmann R., Baumgart C., Parra G., April J.F., Guigo R., Kumpf K.,
RA Tunggul B., Cox E., Quail M.A., Platzer M., Rosenthal A., Noegel A.A.;
RT "Sequence and analysis of chromosome 2 of Dictyostelium discoideum.";
RL Nature 418:79-85(2002).
[2]

Query Match 3.2%; Score 14; DB 2; Length 895;
Best Local Similarity 100.0%; Pred. No. 0.00079;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 340 PTTTTTTTTTTTTT 353
Db 434 PTTTTTTTTTTTTT 447

RESULT 63
Q86L47
AC Q86L47 PRELIMINARY; PRT; 937 AA.
DT 01-JUN-2003 (TrEMBLrel. 24, Created)
DT 01-JUN-2003 (TrEMBLrel. 24, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE Hypothetical protein.
OS Dictyostelium discoideum (Slime mold).
OC Eukaryota; Mycetozoa; Dictyosteliida; Dictyostelium.
OX NCBI_TaxID=44689;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=AX4;

RX MEDLINE=22092622; PubMed=12097910; DOI=10.1038/nature00847;
RA Gloeckner G., Eichinger L., Szafranski K., Pachebat J., Dear P.,
RA Lehmann R., Baumgart C., Parra G., April J.F., Guigo R., Kumpf K.,
RA Tunggul B., Cox E., Quail M.A., Platzer M., Rosenthal A., Noegel A.A.;
RT "Sequence and analysis of chromosome 2 of Dictyostelium discoideum.";
RL Nature 418:79-85(2002).
[2]

Query Match 3.2%; Score 14; DB 2; Length 937;
Best Local Similarity 100.0%; Pred. No. 0.00082;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 341 TTTTTTTTTTTTTT 354
Db 51 TTTTTTTTTTTTTT 64

RESULT 64
Q81P52
ID Q81P52 PRELIMINARY; PRT; 1166 AA.
AC Q81P52;
DT 01-MAR-2003 (TrEMBLrel. 23, Created)
DT 01-MAR-2003 (TrEMBLrel. 23, Last sequence update)
DT 25-OCT-2004 (TrEMBLrel. 28, Last annotation update)
DE CG32972-PB (RE16941p).
GN Name=BG:DSO1523.2; ORFNames=CG32972;
OS Drosophila melanogaster (Fruit fly).
OC Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;
OC Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha;
OC Ephydroidea; Drosophilidae; Drosophila.
OX NCBI_TaxID=7227;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=20196006; PubMed=10731132; DOI=10.1126/science.287.5461.2185;
RA Adams M.D., Celniker S.E., Holt R.A., Evans C.A., Gocayne J.D.,
RA Anantides P.G., Scherzer S.E., Li P.W., Hoskins R.A., Calle R.F.,
RA George R.A., Lewis S.E., Richards S., Ashburner M., Henderson S.N.,
RA Sutton G.G., Wortman J.R., Yandell M.D., Zhang Q., Chen L.X.,
RA Brandon R.C., Rogers Y.H., Blazell R.G., Champe M., Pfeiffer B.D.,
RA Wan K.H., Doyle C., Baxter E.G., Helt G., Nelson C.R., Gabor G.L.,
RA Abril J.F., Aghayani A., An H.J., Andrews-Pfannkoch C., Baldwin D.,
RA Ballew R.M., Basu A., Baxendale J., Bayraktaroglu L., Beasley E.M.,
RA Beeson K.Y., Benos P.V., Berman B.P., Brokstein P., Brotter P.,
RA Borkova D., Botchan M.R., Bouck J., Brokstein P., Brothier P.,
RA Burtis K.C., Busam D.A., Butler H., Cadieu E., Center A., Chandra I.,
RA Cherry J.M., Cawley S., Dahlke S., Davenport L.B., Davies P.,
RA de Pablos B., Delcher A., Deng Z., Mays A.D., Dew I., Dietz S.M.,
RA Dodson K., Doup L.E., Downes M., Dugan-Rocha S., Dunkov B.C., Dunn P.,
RA Durbin K.J., Evangelista C.C., Ferraz C., Ferreira S., Fleischmann W.,
RA Flesler C., Gabrielian A.E., Garg N.S., Gelbart W.M., Glasser K.,
RA Glöck A., Gong F., Gorrell J.H., Gu Z., Guan P., Harris M.,
RA Harris N.L., Harvey D., Heiman T.J., Hernandez J.R., Houck J.,
RA Hostin D., Houston K.A., Howland T.J., Wei M.H., Ibegwam C.,
RA Jalali M., Kalush F., Karpen G.H., Ke Z., Kennison J.A., Ketchum K.A.,
RA Kimmel B.E., Kodira C.D., Kraft C., Kravitz S., Kulp D., Lai Z.,
RA Lasko P., Lei Y., Levitsky A.A., Li J., Li Z., Liang Y., Lin X.,

```

RA Liu X., Mattei B., McIntosh T.C., McLeod M.P., McPherson D.,
RA Merkulo G., Milshina N.V., Mobarry C., Morris J., Moshrefi A.,
RA Mount S.M., Moy M., Murphy B., Murphy L., Muzny D.M., Nelson D.L.,
RA Nelson D.R., Nelson K.A., Nixon K., Nusskern D.R., Pacleb J.M.,
RA Palazzolo M., Pittman G.S., Pan S., Pollard J., Puri V., Reese M.G.,
RA Reinert K., Remington K., Saunders R.D., Scheeler F., Shen H.,
RA Shue B.C., Siden-Kiamos I., Simpson M., Skupski M.P., Smith T.,
RA Spier E., Spradling A.C., Stapleton M., Strong R., Sun E.,
RA Svirskas R., Tector C., Turner R., Venter E., Wang A.H., Wang X.,
RA Wang Z.Y., Wasserman D.A., Weinstein G.M., Weissenbach J.,
RA Williams S.M., Woodage, Worley K.C., Wu D., Yang S., Yao Q.A., Ye J.,
RA Yeh R.P., Zaveri J.S., Zhan M., Zhang G., Zhao Q., Zheng L.,
RA Zheng X.H., Zhong F.N., Zhong W., Zhou X., Zhu S., Smith H.O.,
RA Gibbs R.A., Myers E.W., Rubin G.M., Venter J.C.;
RT "The genome sequence of *Drosophila melanogaster*.";
RL Science 287:2185-2195(2000).
RN (2)
RN SEQUENCE FROM N.A.
RP MEDLINE=22426065; PubMed=12537568;
RX Celinker S.E., Wheeler D.A., Krommiller B., Carlson J.W., Halpern A.,
RA Patel S., Adams M., Champe M., Dugan S.P., Frise E., Hodgson A.,
RA George R.A., Haskins R.A., Laverty T., Muzny D.M., Nelson C.R.,
RA Pacleb J.M., Park S., Pfeiffer B.D., Richards S., Sodergren E.J.,
RA Svirskas R., Tabor P.E., Wan K., Stapleton M., Sutton G.G., Venter C.,
RA Weinstock G., Scherer S.E., Myers E.W., Gibbs R.A., Rubin G.M.;
RT "Finishing a whole-genome shotgun: Release 3 of the *Drosophila*
RT melanogaster euchromatic genome sequence.";
RL Genome Biol. 3:RESEARCH0079-RESEARCH0079(2002).
RN (3)
RN SEQUENCE FROM N.A.
RP MEDLINE=22426070; PubMed=12537573;
RX Kaminiker J.S., Bergman C.M., Krommiller B., Carlson J., Svirskas R.,
RA Patel S., Frise E., Wheeler D.A., Lewis S.E., Rubin G.M.,
RA Ashburner M., Celinker S.E.;
RT "The transposable elements of the *Drosophila melanogaster* euchromatin:
RT a genomics perspective.";
RL Genome Biol. 3:RESEARCH0084-RESEARCH0084(2002).
RN (4)
RN SEQUENCE FROM N.A.
RP MEDLINE=22426069; PubMed=12537572;
RX Miera S., Crosby M.A., Mungall C.J., Matthews B.B., Campbell K.S.,
RA Hradecky P., Huang Y., Kaninker J.S., Millburn G.H., Prochnik S.E.,
RA Smith C.D., Tupy J.L., Whitfield E.J., Bayraktaroglu I., Berman B.P.,
RA Bettencourt B.R., Celinker S.E., de Grey A.D., Drysdale R.A.,
RA Harris N.L., Richter J., Russo S., Schroeder A.J., Shu S.Q.,
RA Stapleton M., Yamada C., Ashburner M., Gelbart W.M., Rubin G.M.,
RA Lewis S.E.;
RT "Annotation of the *Drosophila melanogaster* euchromatic genome: a
RT systematic review.";
RL Genome Biol. 3:RESEARCH0083-RESEARCH0083(2002).
RN (5)
RN SEQUENCE FROM N.A.
RP FlyBase;
RG Submitted (SEP-2002) to the EMBL/GenBank/DBJ databases.
RL (6)
RN SEQUENCE FROM N.A.
RP FlyBase;
RG Submitted (MAR-2004) to the EMBL/GenBank/DBJ databases.
RL (7)
RN SEQUENCE FROM N.A.
RC STRAIN=Berkeley;
RA Stapleton M., Brokstein P., Hong L., Agbayani A., Carlson J.,
RA Champe M., Chavez C., Dorsett V., Dresnek D., Farfan D., Frise E.,
RA George R., Gonzalez M., Guarin H., Krommiller B., Li P., Liao G.,
RA Miranda A., Mungall C.J., Nunco J., Pacleb J., Paragas V., Park S.,
RA Patel S., Phouanavong S., Wan K., Yu C., Lewis S.E., Rubin G.M.,
RA Celinker S.;
RL Submitted (AUG-2003) to the EMBL/GenBank/DBJ databases.
DR EMBL; AE003642; AAN10874.1; -;
DR EMBL; BT010014; AAQ22483.1; -;
DR IntAct; O8IP52; -;
DR FlyBase; FBgn0028905; CG32972.
DR GO; GO:0007155; P:cell adhesion; IEA.

DR InterPro; IPR000782; BIGH3 FAS1.
DR Pfam; PF02489; Fasciclin; 2.
DR SMART; SM00554; FAS1; 2.
DR PROSITE; PS02113; FAS1; 2.
SQ SEQUENCE 1166 AA; 128893 MW; DD25F816E75F7CF9 CRC64;
Query Match 3.2%; Score 14; DB 2; Length 1166;
Best Local Similarity 100.0%; Pred. No. 0.00098;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 340 PTTTTTTTTTTTTT 353
Db 407 PTTTTTTTTTTTTT 420
RESULT 65
Q8SSU4 PRELIMINARY; PRT; 1728 AA.
ID Q8SSU4 PRELIMINARY;
AC Q8SSU4;
DT 01-JUN-2002 (TrEMBLrel. 21, Created)
DT 01-JUN-2002 (TrEMBLrel. 21, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE Similar to Dictyostelium discoideum (Slime mold). Nucleotide exchange
DE factor RasGEF P.
OS Dictyostelium discoideum (Slime mold).
OC Eukaryota; Mycetozoa; Dictyostelidia; Dictyostelium.
OX NCBI_TaxID=44689;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=AX4;
RX MEDLINE=22026222; PubMed=12097910; DOI=10.1038/nature00847;
RA Gloeckner G., Eichinger L., Szafranski K., Pachebat J., Dear P.,
RA Lehmann R., Baumgart C., Parra G., April J.F., Guigo R., Kumpf K.,
RA Tungal B., Cox E., Quail M.A., Platzer M., Rosenthal A., Noegel A.A.;
RT "Sequence and analysis of chromosome 2 of *Dictyostelium discoideum*.";
RL Nature 418:79-85(2002).
RN [2]
RP SEQUENCE FROM N.A.
RC STRAIN=AX4;
RL Submitted (MAR-2003) to the EMBL/GenBank/DBJ databases.
DR EMBL; AC116956; AAL92600.1; -;
DR HSP; P21359; INF1.
DR InterPro; IPR006869; DUF547.
DR InterPro; IPR001547; Glyco_hydro_5.
DR InterPro; IPR001936; RasGAP.
DR InterPro; IPR008936; Rho GAP.
DR Pfam; PF04784; DUF547; 1.
DR Pfam; PF00616; RasGAP; 1.
DR SMART; SM00323; RasGAP; 1.
DR PROSITE; PS00659; GLYCOSYL_HYDROL_F5; UNKNOWN_1.
DR PROSITE; PS50018; RAS_GTPASE_ACTIV_2; 1.
SQ SEQUENCE 1728 AA; 192334 MW; DBE4425042FF48EA CRC64;
Query Match 3.2%; Score 14; DB 2; Length 1728;
Best Local Similarity 100.0%; Pred. No. 0.0014;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 340 PTTTTTTTTTTTTT 353
Db 151 PTTTTTTTTTTTTT 164
RESULT 66
Q96503 PRELIMINARY; PRT; 1832 AA.
ID Q96503 PRELIMINARY;
AC Q96503;
DT 01-MAY-1999 (TrEMBLrel. 10, Created)
DT 01-MAY-1999 (TrEMBLrel. 10, Last sequence update)
DT 01-JUN-2003 (TrEMBLrel. 24, Last annotation update)
DE GP900.
OS Cryptosporidium parvum.
OC Eukaryota; Alveolata; Apicomplexa; Coccidia; Eimeriida;

```

OC Cryptosporidiidae; Cryptosporidium.
OX NCBI_TaxID=5807;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=9906935; PubMed=9851610; DOI=10.1016/S0166-6851(98)00119-4;
RA Barnes D.A., Bonnin A., Huang J.X., Goussset L., Wu J., Gut J.,
RD Doyle P., Dubrenetz J.F., Ward H., Petersen C.;
RT "A novel multi-domain mucin-like glycoprotein of Cryptosporidium
RL parvum mediates invasion.";
RM Mol. Biochem. Parasitol. 96:93-110(1998).
DR EMBL; AF068065; AAC98153.1; -.
SQ SEQUENCE 1832 AA; 192653 MW; 590E6ACB16BB80D2 CRC64;

Query Match 3.2%; Score 14; DB 2; Length 1832;
Best Local Similarity 100.0%; Pred. No. 0.0014;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 340 PTTTTTTTTTTTTT 353
Db 373 PTTTTTTTTTTTTT 386

RESULT 67
Q7KT96 PRELIMINARY; PRT; 1853 AA.
ID Q7KT96
AC Q7KT96;
DT 05-JUL-2004 (TrEMBLrel. 27, Created)
DT 05-JUL-2004 (TrEMBLrel. 27, Last sequence update)
DT 05-JUL-2004 (TrEMBLrel. 27, Last annotation update)
DE CG32972-PA.
GN ORFNames=CG32972;
OS Drosophila melanogaster (Fruit fly).
OC Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;
OC Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha;
OC Ephydroidea; Drosophilidae; Drosophila.
OX NCBI_TaxID=7227;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=20196006; PubMed=10731132; DOI=10.1126/science.287.5461.2185;
RA Adams M.D., Celniker S.E., Holt R.A., Evans C.A., Gocayne J.D.,
RA Amanatides P.G., Scher S.E., Li P.W., Hoskins R.A., Galle R.F.,
RA George R.A., Lewis S.E., Richards S., Ashburner M., Henderson S.N.,
RA Sutton G.G., Wortman J.R., Yandell M.D., Zhang Q., Chen L.X.,
RA Brandon R.C., Rogers Y.H., Blazej R.G., Champe M., Pfeiffer B.D.,
RA Wan K.H., Doyle C., Baxter E.G., Helt G., Nelson C.R., Gabor G.L.,
RA April J.F., Agbayani A., An H.J., Andrews-Pfannkoch C., Baldwin D.,
RA Ballwe R.M., Basu A., Baxendale J., Bayraktaroglu L., Beasley E.M.,
RA Beeson K.Y., Benos P.V., Berman B.P., Bhandari D., Bolshakov S.,
RA Borkova D., Botchan M.R., Bouck J., Brokstein P., Brotter P.,
RA Burtis K.C., Busam D.A., Butler H., Cadieu E., Center A., Chandra I.,
RA Cherry J.M., Cawley S., Dahlke C., Davenport L.B., Davies P.,
RA de Pablo S., Delcher A., Deng Z., Mays A.D., Dew I., Dietz S.M.,
RA Dodson K., Dou L.E., Downes M., Dugan-Rocha S., Dunkov B.C., Dunn P.,
RA Durbin K.J., Evangelista C.C., Ferraz C., Ferreira S., Fleischmann W.,
RA Fosler C., Gabriellian A.E., Garg N.S., Gelbart W.M., Glasser K.,
RA Glodek A., Gong F., Gorrell J.H., Gu Z., Guan P., Harris M.,
RA Harris N.L., Harvey D., Heiman T.J., Hernandez J.R., Houck J.,
RA Hostin D., Houston K.A., Howland T.J., Wei M.H., Ibegwam C.,
RA Jalali M., Kalush F., Karpen G.H., Ke Z., Kennison J.A., Ketchum K.A.,
RA Kimmel B.E., Kodira C.D., Kraft C., Kravitz S., Kulp D., Lai Z.,
RA Lasko P., Lei Y., Levitsky A.A., Li J., Li Z., Liang Y., Lin X.,
RA Liu X., Mattei B., McIntosh T.C., McLeod M.P., McPherson D.,
RA Markulov G., Milshina N.V., Mobarry C., Morris J., Moshrefi A.,
RA Mount S.M., Moy M., Murphy B., Murphy L., Muzny D.M., Nelson D.L.,
RA Nelson D.R., Nelson K.A., Nixon K., Nuskern D.R., Pacleab J.M.,
RA Palazzolo M., Pittman G.S., Pan S., Pollard J., Puri V., Reese M.G.,
RA Reinert K., Remington K., Saunders R.D., Scheeler F., Shen H.,
RA Shue B.C., Siden-Klamos I., Simpson M., Skupski M.P., Smith T.,
RA Spier E., Spradling A.C., Stapleton M., Strong R., Sun E.,
RA Swirskas R., Tector C., Turner R., Venter E., Wang A.H., Wang X.,
RA Wang Z.Y., Wassarman D.A., Weinstein G.M., Weissbach J.,
RA Williams S.M., Woodage, Worley K.C., Wu D., Yang S., Yao Q.A., Ye J.,

```

```

RA Yeh R.F., Zaveri J.S., Zhan M., Zhang G., Zhao Q., Zheng L.,
RA Zheng X.H., Zhong F.N., Zhong W., Zhou X., Zhu S., Zhu X., Smith H.O.,
RA Gibbs R.A., Myers E.W., Rubin G.M., Venter J.C.;
RT "The genome sequence of Drosophila melanogaster.";
RL Science 287:2185-2195 (2000).
RN [2]
RP SEQUENCE FROM N.A.
RX MEDLINE=22426065; PubMed=12537568;
RA Celniker S.E., Wheeler D.A., Kronmiller B., Carlson J.W., Halpern A.,
RA Patel S., Adams M., Champe M., Dugan S.P., Frise E., Hodgson A.,
RA George R.A., Hoskins R.A., Laverty T., Muzny D.M., Nelson C.R.,
RA Pacleab J.M., Park S., Pfeiffer B.D., Richards S., Sodergren E.J.,
RA Swirskas R., Tabor P.E., Wan K., Stapleton M., Sutton G.G., Venter C.,
RA Weinstein G., Scher S.E., Myers E.W., Gibbs R.A., Rubin G.M.;
RT "Finishing a whole-genome shotgun: Release 3 of the Drosophila
RL melanogaster euchromatic genome sequence.";
RN Genome Biol. 3:RESEARCH0079-RESEARCH0079(2002).
RN [3]
RP SEQUENCE FROM N.A.
RX MEDLINE=22426070; PubMed=12537573;
RA Kaminker J.S., Bergman C.M., Kronmiller B., Carlson J., Swirskas R.,
RA Patel S., Frise E., Wheeler D.A., Lewis S.E., Rubin G.M.,
RA Ashburner M., Celniker S.E.;
RT "The transposable elements of the Drosophila melanogaster euchromatin:
RL a genomics perspective.";
RN Genome Biol. 3:RESEARCH0084-RESEARCH0084 (2002).
RN [4]
RP SEQUENCE FROM N.A.
RX MEDLINE=22426069; PubMed=12537572;
RA Misra S., Crosby M.A., Mungall C.J., Matthews B.B., Campbell K.S.,
RA Hradecky P., Huang Y., Kaminker J.S., Millburn G.H., Prochnik S.E.,
RA Smith C.D., Tupy J.L., Whitfield E.J., Bayraktaroglu L., Berman B.P.,
RA Bettencourt B.R., Celniker S.E., de Grey A.D., Drysdale R.A.,
RA Harris N.L., Richter J., Russo S., Schroeder A.J., Shu S.Q.,
RA Stapleton M., Yamada C., Ashburner M., Gelbart W.M., Rubin G.M.,
RA Lewis S.E.;
RT "Annotation of the Drosophila melanogaster euchromatic genome: a
RL systematic review.";
RN Genome Biol. 3:RESEARCH0083-RESEARCH0083 (2002).
RN [5]
RP SEQUENCE FROM N.A.
RG FlyBase;
RL Submitted (SEP-2002) to the EMBL/GenBank/DBJ databases.
RN [6]
RP SEQUENCE FROM N.A.
RG FlyBase;
RL Submitted (MAR-2004) to the EMBL/GenBank/DBJ databases.
DR EMBL; AS003642; AAS64704.1; -.
DR GO; GO:0007155; P:cell adhesion; IEA.
DR InterPro; IPR000782; BIGH3 FAS1.
DR Pfam; PF02469; Fasciclin; Z.
DR SMART; SM00554; FAS1; 2.
DR PROSITE; PS0213; FAS1; 2.
SQ SEQUENCE 1853 AA; 201677 MW; 518684872828D53F CRC64;

Query Match 3.2%; Score 14; DB 2; Length 1853;
Best Local Similarity 100.0%; Pred. No. 0.0015;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 340 PTTTTTTTTTTTTT 353
Db 407 PTTTTTTTTTTTTT 420

RESULT 68
Q9NKC9 PRELIMINARY; PRT; 1893 AA.
ID Q9NKC9
AC Q9NKC9;
DT 01-OCT-2000 (TrEMBLrel. 15, Created)
DT 01-OCT-2000 (TrEMBLrel. 15, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE Hypothetical protein BG:DS01523.2.
GN Name=BG:DS01523.2; ORFNames=CG32972;

```



```

ID Q66GT4 PRELIMINARY; PRT; 3550 AA.
AC Q66GT4;
DT 25-OCT-2004 (TrEMBLrel. 28, Created)
DT 25-OCT-2004 (TrEMBLrel. 28, Last sequence update)
DT 25-OCT-2004 (TrEMBLrel. 28, Last annotation update)
DE Mucin apoprotein precursor (Fragment).
OS Name=Muc19;
GN Rattus norvegicus (Rat).
OC Eukaryota; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.
OX NCBI_TaxID=10116;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=BN/SsNHedMCW;
RA Culp D.J., Latchney L.R., Fallon M.A., Denny P.A., Denny P.C.,
RA Couwenhoven R.I., Chuang S.;
RT "The Gene Encoding Mouse Muc19: cDNA, Genomic Organization and
RT Relationship to SMGC.";
RL Physiol. Genomics (Online) 0:0-0 (2004).
DR EMBL; BK005555; DAA05595.1; -.
DR InterPro; IPR002919; Cysrich.TIL.
DR InterPro; IPR009041; PMP_SGC1.
DR InterPro; IPR008552; VMC_Out.
DR InterPro; IPR001846; VWF_D.
DR Pfam; PF01826; TIL; 1.
DR Pfam; PF00094; VWD; 3.
DR SMART; SM00215; VMC_out; 2.
DR SMART; SM00216; VWD; 3.
KW Signal.
FT SIGNAL
FT NON_TER 3550 3550
SQ SEQUENCE 3550 AA; 354982 MW; 108149CCSF35DBFC CRC64;

Query Match 3.2%; Score 14; DB 2; Length 3550;
Best Local Similarity 100.0%; Pred. No. 0.0025;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 341 TTTTNTTTTTTTTTT 354
DB 2446 TTTTNTTTTTTTTTT 2459

RESULT 72
Q01601 PRELIMINARY; PRT; 56 AA.
ID Q01601
AC Q01601
DT 01-NOV-1996 (TrEMBLrel. 01, Created)
DT 01-NOV-1996 (TrEMBLrel. 01, Last sequence update)
DT 01-OCT-2002 (TrEMBLrel. 22, Last annotation update)
DE Major surface glycoprotein (Fragment).
OS Pneumocystis carinii.
OC Eukaryota; Fungi; Ascomycota; Pneumocystidomycetes; Pneumocystidaceae;
OC Pneumocystis.
OX NCBI_TaxID=4754;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=prototype form 1;
RA Linke M.J., Smulian A.G., Stringer J.R., Walzer P.D.;
RX MEDLINE=95107908; Pubmed=7808998;
RT "Characterization of multiple unique cDNAs encoding the major surface
RT glycoprotein of rat-derived Pneumocystis carinii.";
RL Parasitol. Res. 80:478-486(1994).
DR EMBL; U07057; AAA74069.1; -.
FT NON_TER 1
FT NON_TER 56
SQ SEQUENCE 56 AA; 5825 MW; AE1F4EA7718D7DF7 CRC64;

Query Match 2.9%; Score 13; DB 2; Length 56;
Best Local Similarity 100.0%; Pred. No. 0.00064;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 341 TTTTNTTTTTTTTTT 353
DB 2446 TTTTNTTTTTTTTTT 2459

us-10-622-237-2.oligo.rup
```

```

Db 1 TTTTNTTTTTTTTTT 13

RESULT 73
Q86IE6 PRELIMINARY; PRT; 56 AA.
ID Q86IE6
AC Q86IE6;
DT 01-JUN-2003 (TrEMBLrel. 24, Created)
DT 01-JUN-2003 (TrEMBLrel. 24, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE Hypothetical protein.
OS Dictyostelium discoideum (Slime mold).
OC Eukaryota; Mycetozoa; Dictyosteliida; Dictyostelium.
OX NCBI_TaxID=44689;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=AX4;
RX MEDLINE=22092622; Pubmed=12097910; DOI=10.1038/nature00847;
RA Gloeckner G., Eichinger L., Szafranski K., Pachebat J., Dear P.,
RA Lehmann R., Baumgart C., Parra G., April J.F., Guigo R., Kumpf K.,
RA Tunggal B., Cox E., Quail M.A., Platzner M., Rosenthal A., Noegel A.A.;
RT "Sequence and analysis of chromosome 2 of Dictyostelium discoideum.";
RL Nature 418:79-85(2002).
RN [2]
RP SEQUENCE FROM N.A.
RC STRAIN=AX4;
RA Baumgart C.;
RL Submitted (FEB-2004) to the EMBL/GenBank/DBJ databases.
DR EMBL; AC116551; AAO52164.1; -.
KW Hypothetical protein.
SQ SEQUENCE 56 AA; 6096 MW; 5D1F0B92FE6D17C7 CRC64;

Query Match 2.9%; Score 13; DB 2; Length 56;
Best Local Similarity 100.0%; Pred. No. 0.00064;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 341 TTTTNTTTTTTTTTT 353
DB 24 TTTTNTTTTTTTTTT 36

RESULT 74
Q95UY4 PRELIMINARY; PRT; 67 AA.
ID Q95UY4
AC Q95UY4;
DT 01-DEC-2001 (TrEMBLrel. 19, Created)
DT 01-DEC-2001 (TrEMBLrel. 19, Last sequence update)
DT 01-OCT-2002 (TrEMBLrel. 22, Last annotation update)
DE Merozoite surface protein 2 (Fragment).
OS Plasmodium falciparum.
OC Eukaryota; Alveolata; Apicomplexa; Haemosporida; Plasmodium.
OX NCBI_TaxID=5833;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=V333;
RA Hoffmann E.H., Silveira L.A., Tonhosolo R., Pereira F.J.,
RA Ribeiro W.L., Tonon A.P., Marrelli M.T., Kawamoto F., Ferreira M.U.;
RL Submitted (SEP-2000) to the EMBL/GenBank/DBJ databases.
DR EMBL; AY008396; AAG30717.1; -.
KW Merozoite.
FT NON_TER 1
FT NON_TER 67
SQ SEQUENCE 67 AA; 5732 MW; 6B2B3F43575D87C7 CRC64;

Query Match 2.9%; Score 13; DB 2; Length 67;
Best Local Similarity 100.0%; Pred. No. 0.00074;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 341 TTTTNTTTTTTTTTT 353
DB 55 TTTTNTTTTTTTTTT 67
```

```
RESULT 75
Q95UY6 PRELIMINARY; PRT; 67 AA.
AC Q95UY6;
DT 01-DEC-2001 (TrEMBLrel. 19, Created)
DT 01-DEC-2001 (TrEMBLrel. 19, Last sequence update)
DT 01-OCT-2002 (TrEMBLrel. 22, Last annotation update)
DE Merozoite surface protein 2 (Fragment).
OS Plasmodium falciparum.
OC Eukaryota; Alveolata; Apicomplexa; Haemosporida; Plasmodium.
OX NCBI_TaxID=5833;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=V57;
RA Hoffmann E.H., Silveira L.A., Tonhosolo R., Pereira F.J.,
RA Ribeiro W.L., Tonon A.P., Marrelli M.T., Kawamoto F., Ferreira M.U.;
RL Submitted (SEP-2000) to the EMBL/GenBank/DBJ databases.
DR EMBL; AY008394; AAG30715.1; -.
KW Merozoite.
FT NON_TER 1 1
FT NON_TER 67 67
SQ SEQUENCE 67 AA; 5706 MW; 6C5E8980203990C4 CRC64;

Query Match 2.9%; Score 13; DB 2; Length 67;
Best Local Similarity 100.0%; Pred. No. 0.00074;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 341 TTTTTTTTTTTT 353
Db 55 TTTTTTTTTTTT 67
```

Search completed: June 28, 2005, 10:20:28
Job time : 119.949 secs

THIS PAGE BLANK (USPTO)

GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.

OM protein - protein search, using sw model

Run on: June 28, 2005, 09:54:53 ; Search time 119.57 Seconds
(without alignments)
1429.691 Million cell updates/sec

Title: US-10-622-237-2

Perfect score: 442

Sequence: 1 MASVLPSSGSCCAAAAAA.....AIIAEGGQNNSEKEYFI 442

Scoring table:

Gapop 60.0 , Gapext 60.0

Searched: 2105692 seqs, 386760381 residues

Word size : 0

Total number of hits satisfying chosen parameters: 2105692

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 150 summaries

Database : A_Geneseq_16Dec04:*

- 1: Geneseqp1980s:*
- 2: Geneseqp1990s:*
- 3: Geneseqp2000s:*
- 4: Geneseqp2001s:*
- 5: Geneseqp2002s:*
- 6: Geneseqp2003as:*
- 7: Geneseqp2003bs:*
- 8: Geneseqp2004s:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | ID | Description |
|------------|-------|-------------|--------|----|---------------------|
| 1 | 442 | 100.0 | 442 | 3 | Ab25619 Protein e |
| 2 | 442 | 100.0 | 442 | 3 | Aay94341 Human cel |
| 3 | 442 | 100.0 | 442 | 3 | Aay45092 Human lym |
| 4 | 442 | 100.0 | 442 | 5 | Aae19887 Human tum |
| 5 | 442 | 100.0 | 442 | 5 | Abp62825 Human pol |
| 6 | 442 | 100.0 | 442 | 6 | Ada27144 Human nov |
| 7 | 442 | 100.0 | 442 | 7 | Ades4238 Human pro |
| 8 | 442 | 100.0 | 442 | 8 | Ade86685 Novel hum |
| 9 | 417 | 94.3 | 440 | 2 | Aay17830 Human PRO |
| 10 | 417 | 94.3 | 440 | 3 | Aab01321 Human PRO |
| 11 | 417 | 94.3 | 440 | 4 | Aau29040 Human PRO |
| 12 | 417 | 94.3 | 440 | 6 | Au58416 Human PRO |
| 13 | 417 | 94.3 | 440 | 6 | Abu87964 Novel hum |
| 14 | 417 | 94.3 | 440 | 6 | Abu84279 Human sec |
| 15 | 417 | 94.3 | 440 | 6 | Abp6153 Human sec |
| 16 | 417 | 94.3 | 440 | 6 | Abp65543 Human sec |
| 17 | 417 | 94.3 | 440 | 6 | Abu99483 Human sec |
| 18 | 417 | 94.3 | 440 | 6 | Abu55930 Human sec |
| 19 | 417 | 94.3 | 440 | 6 | Abu82722 Human PRO |
| 20 | 417 | 94.3 | 440 | 6 | Abu89843 Novel hum |
| 21 | 417 | 94.3 | 440 | 6 | Abp68092 Human sec |
| 22 | 417 | 94.3 | 440 | 6 | Abu96145 Novel hum |
| 23 | 417 | 94.3 | 440 | 6 | Abu92576 Human sec |
| 24 | 417 | 94.3 | 440 | 6 | Abu08653 Human sec |
| 25 | 417 | 94.3 | 440 | 6 | Abu002705 Human sec |

| | | | | | |
|----|-----|------|-----|---|--------------------|
| 26 | 417 | 94.3 | 440 | 6 | Abp74859 Human sec |
| 27 | 417 | 94.3 | 440 | 6 | Abp94621 Human sec |
| 28 | 417 | 94.3 | 440 | 6 | Abu60240 Human PRO |
| 29 | 417 | 94.3 | 440 | 6 | Abu85594 Human PRO |
| 30 | 417 | 94.3 | 440 | 6 | Abu98754 Novel hum |
| 31 | 417 | 94.3 | 440 | 6 | Abu97969 Novel hum |
| 32 | 417 | 94.3 | 440 | 6 | Abu91675 Novel hum |
| 33 | 417 | 94.3 | 440 | 6 | Abu89368 Human PRO |
| 34 | 417 | 94.3 | 440 | 6 | Abu86209 Human sec |
| 35 | 417 | 94.3 | 440 | 6 | Abu67422 Human sec |
| 36 | 417 | 94.3 | 440 | 6 | Abu80450 Human PRO |
| 37 | 417 | 94.3 | 440 | 6 | Abp93168 Human sec |
| 38 | 417 | 94.3 | 440 | 6 | Abp98758 Human sec |
| 39 | 417 | 94.3 | 440 | 6 | Abp16281 Human sec |
| 40 | 417 | 94.3 | 440 | 6 | Abp92181 Human sec |
| 41 | 417 | 94.3 | 440 | 6 | Abp18822 Human sec |
| 42 | 417 | 94.3 | 440 | 6 | Abp78243 Human sec |
| 43 | 417 | 94.3 | 440 | 6 | Abu64926 Human sec |
| 44 | 417 | 94.3 | 440 | 6 | Abu84979 Novel hum |
| 45 | 417 | 94.3 | 440 | 6 | Abu00118 Novel hum |
| 46 | 417 | 94.3 | 440 | 6 | Abp11450 Human sec |
| 47 | 417 | 94.3 | 440 | 6 | Abu02095 Human sec |
| 48 | 417 | 94.3 | 440 | 6 | Abu58360 Novel hum |
| 49 | 417 | 94.3 | 440 | 6 | Abu88669 Novel hum |
| 50 | 417 | 94.3 | 440 | 6 | Abu83364 Human sec |
| 51 | 417 | 94.3 | 440 | 6 | Abu06165 Novel hum |
| 52 | 417 | 94.3 | 440 | 6 | Abp59201 Human sec |
| 53 | 417 | 94.3 | 440 | 6 | Abu09263 Human sec |
| 54 | 417 | 94.3 | 440 | 6 | Abp19127 Novel hum |
| 55 | 417 | 94.3 | 440 | 6 | Abp11145 Human sec |
| 56 | 417 | 94.3 | 440 | 6 | Abp66763 Human sec |
| 57 | 417 | 94.3 | 440 | 6 | Abp15976 Human sec |
| 58 | 417 | 94.3 | 440 | 6 | Abp13682 Human sec |
| 59 | 417 | 94.3 | 440 | 6 | Abu57246 Human PRO |
| 60 | 417 | 94.3 | 440 | 6 | Abu65585 Human sec |
| 61 | 417 | 94.3 | 440 | 6 | Abu07433 Human PRO |
| 62 | 417 | 94.3 | 440 | 6 | Abu03620 Human sec |
| 63 | 417 | 94.3 | 440 | 6 | Abp7068 Human sec |
| 64 | 417 | 94.3 | 440 | 6 | Abp15671 Human sec |
| 65 | 417 | 94.3 | 440 | 6 | Abu55952 Human sec |
| 66 | 417 | 94.3 | 440 | 6 | Abu65280 Human PRO |
| 67 | 417 | 94.3 | 440 | 6 | Abu95225 Novel hum |
| 68 | 417 | 94.3 | 440 | 6 | Abu71128 Human PRO |
| 69 | 417 | 94.3 | 440 | 6 | Abu07738 Human PRO |
| 70 | 417 | 94.3 | 440 | 6 | Abp69979 Human sec |
| 71 | 417 | 94.3 | 440 | 6 | Abp69312 Human sec |
| 72 | 417 | 94.3 | 440 | 6 | Abu01453 Human PRO |
| 73 | 417 | 94.3 | 440 | 6 | Abu81255 Human PRO |
| 74 | 417 | 94.3 | 440 | 6 | Abp60052 Human sec |
| 75 | 417 | 94.3 | 440 | 6 | Abp67787 Human sec |
| 76 | 417 | 94.3 | 440 | 6 | Abp65175 Human sec |
| 77 | 417 | 94.3 | 440 | 6 | Abp68397 Human sec |
| 78 | 417 | 94.3 | 440 | 6 | Abp71809 Human sec |
| 79 | 417 | 94.3 | 440 | 6 | Abu85289 Human PRO |
| 80 | 417 | 94.3 | 440 | 6 | Abu88979 Human sec |
| 81 | 417 | 94.3 | 440 | 6 | Abu83059 Human sec |
| 82 | 417 | 94.3 | 440 | 6 | Abu94915 Novel hum |
| 83 | 417 | 94.3 | 440 | 6 | Abu90463 Novel hum |
| 84 | 417 | 94.3 | 440 | 6 | Abu83974 Human sec |
| 85 | 417 | 94.3 | 440 | 6 | Abu93625 Novel hum |
| 86 | 417 | 94.3 | 440 | 6 | Abp64870 Human sec |
| 87 | 417 | 94.3 | 440 | 6 | Abp68702 Human sec |
| 88 | 417 | 94.3 | 440 | 6 | Abu06518 Human sec |
| 89 | 417 | 94.3 | 440 | 6 | Abp99063 Human sec |
| 90 | 417 | 94.3 | 440 | 6 | Abu56311 Human sec |
| 91 | 417 | 94.3 | 440 | 6 | Abu56947 Human PRO |
| 92 | 417 | 94.3 | 440 | 6 | Abu58899 Novel hum |
| 93 | 417 | 94.3 | 440 | 6 | Abu82186 Novel hum |
| 94 | 417 | 94.3 | 440 | 6 | Abu87197 Human PRO |
| 95 | 417 | 94.3 | 440 | 6 | Abu83669 Human sec |
| 96 | 417 | 94.3 | 440 | 6 | Abu08043 Human PRO |
| 97 | 417 | 94.3 | 440 | 6 | Abu60351 Novel hum |
| 98 | 417 | 94.3 | 440 | 6 | Abu81754 Novel hum |

```
99 417 94.3 440 6 ABU65918 Novel hum
100 417 94.3 440 6 ABR59747 Human sec
101 417 94.3 440 6 ABU93935 Novel hum
102 417 94.3 440 6 ABU93788 Novel hum
103 417 94.3 440 6 ABR66458 Human sec
104 417 94.3 440 6 ABR90876 Human sec
105 417 94.3 440 6 ABU94303 Human PRO
106 417 94.3 440 6 ABU79185 Human PRO
107 417 94.3 440 6 ABU86514 Human sec
108 417 94.3 440 6 ABU86819 Novel hum
109 417 94.3 440 6 ABU94608 Human PRO
110 417 94.3 440 6 ABO04535 Human PRO
111 417 94.3 440 6 ABR70284 Human sec
112 417 94.3 440 6 ABU98449 Human PRO
113 417 94.3 440 6 ABR65848 Human sec
114 417 94.3 440 6 ABR64565 Human sec
115 417 94.3 440 6 ABU79490 Human PRO
116 417 94.3 440 6 ABU92881 Human sec
117 417 94.3 440 6 ABU95840 Human PRO
118 417 94.3 440 6 ABU91060 Novel hum
119 417 94.3 440 6 ABU90153 Novel hum
120 417 94.3 440 6 ABO03568 Human sec
121 417 94.3 440 6 ABO10840 Human sec
122 417 94.3 440 6 ABR70894 Human sec
123 417 94.3 440 6 ABU87502 Human PRO
124 417 94.3 440 6 ABU91370 Human PRO
125 417 94.3 440 6 ABU84584 Human sec
126 417 94.3 440 6 ABR69674 Human sec
127 417 94.3 440 6 ABU80051 Human PRO
128 417 94.3 440 6 ABU93320 Human PRO
129 417 94.3 440 6 ABO09873 Human sec
130 417 94.3 440 6 ABO08958 Human sec
131 417 94.3 440 6 ABU10526 Human sec
132 417 94.3 440 6 ABU11312 Human PRO
133 417 94.3 440 6 ABU67131 Human PRO
134 417 94.3 440 6 ABU95535 Human PRO
135 417 94.3 440 6 ABU96744 Novel hum
136 417 94.3 440 6 ABR70589 Human sec
137 417 94.3 440 6 ABO04940 Human sec
138 417 94.3 440 6 ABO08348 Human sec
139 417 94.3 440 6 ABO05555 Human sec
140 417 94.3 440 6 ABR73944 Human sec
141 417 94.3 440 6 ABR95536 Human sec
142 417 94.3 440 6 ABR80833 Human sec
143 417 94.3 440 6 ABR81138 Human sec
144 417 94.3 440 6 ABM00834 Human sec
145 417 94.3 440 6 ABR88436 Human sec
146 417 94.3 440 6 ABM77257 Human sec
147 417 94.3 440 6 ABO28741 Human sec
148 417 94.3 440 6 ABO31486 Human sec
149 417 94.3 440 6 ABM07903 Human sec
150 417 94.3 440 6 ABO40383 Human sec
```

ALIGNMENTS

```
RESULT 1
AAB25619 standard; protein; 442 AA.
XX
AC AAB25619;
XX
XX 21-NOV-2000 (first entry)
DE Protein encoded by human secreted protein gene #11.
XX
KW Secreted protein; immunosuppressant; anti-inflammatory; antiarthritic;
KW antirheumatic, dermatological; antiproliferative; antiarteriosclerotic;
KW anticancer; vulnery; antiviral; antibacterial; antifungal;
KW immune disorder; Addison's disease; rheumatoid arthritis; dermatitis;
KW multiple sclerosis; inflammatory disorder; inflammatory bowel disease;
KW Crohn's disease; nephritis; hyperproliferative disorder;
```

```
KW cardiovascular disorder; coronary arteriosclerosis; myocarditis; cancer;
KW melanoma; lymphoma; wound healing; human.
XX Homo sapiens.
OS WO200029435-A1.
XX 25-MAY-2000.
PD 27-OCT-1999; 99WO-US025031.
XX 28-OCT-1998; 98US-0105971P.
XX (HUMA-) HUMAN GENOME SCI INC.
PI Ni J, Ruben SM, Olsen HS, Young PE, Kenny JJ, Moore PA, Wei Y;
PI Greene JW;
XX WPI; 2000-387742/33.
XX Isolated nucleic acid molecules encoding human secreted proteins are used
XX for the prevention, amelioration and treatment of autoimmune,
XX inflammatory, hyperproliferative and cardiovascular disorders, cancer,
XX wounds, and infectious diseases.
XX Disclosure; Page 182-183; 803pp; English.
XX The present invention relates to 12 secreted human proteins and the
XX nucleotide sequences encoding them. The polynucleotide sequences given in
XX AAA80606-A80623 encode the 12 secreted protein sequences given in
XX AAB25576-B25593. The human secreted proteins have various activities
XX dependent on the tissues in which they are expressed. Examples of the
XX activities of the proteins include: immunosuppressant; anti-inflammatory;
XX antiarthritic; antirheumatic, dermatological; antiproliferative;
XX antiarteriosclerotic; anticancer; vulnery; antiviral; antibacterial;
XX and antifungal activity. The proteins, polypeptides, agonists and
XX antagonists may be used to treat prevent and/or diagnose various disease,
XX disorders and conditions examples of which include: immune disorders e.g.
XX Addison's disease, rheumatoid arthritis, dermatitis, and multiple
XX sclerosis; inflammatory disorders e.g. inflammatory bowel disease,
XX Crohn's disease and nephritis; hyperproliferative disorders such as
XX paraproteinemias and purpura; cardiovascular disorders e.g. coronary
XX arteriosclerosis and myocarditis; cancer e.g. melanoma and lymphoma. The
XX proteins and polynucleotide sequences may also be used in wound healing
XX and the treatment of infectious diseases. The human secreted protein gene
XX #11 and protein sequences are represented in sequences AAA80616 and
XX AAB25586. Sequences AAA80677-A80682 represent genes related to the
XX secreted protein gene#11
XX
SQ Sequence 442 AA;
```

Query Match 100.0%; Score 442; DB 3; Length 442;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 442; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
Qy 1 MASVLPSSGSOCAAAAAAAPPGLRLRLLLLSAAALPTGQNLFTKDVTVIEGEVA 60
Db 1 MASVLPSSGSOCAAAAAAAPPGLRLRLLLLSAAALPTGQNLFTKDVTVIEGEVA 60
Qy 61 TISCQVKNKSDSVIQLLNPNRQTIYFRDPRPLKDSRPFQLNFSSELKVSILTNNVISDEG 120
Db 61 TISCQVKNKSDSVIQLLNPNRQTIYFRDPRPLKDSRPFQLNFSSELKVSILTNNVISDEG 120
Qy 121 RYFCQLYTDPPQESYTTITVLVPPRNLMIDIQKDTAVEGEIEIVNCTAMASKPATIRWF 180
Db 121 RYFCQLYTDPPQESYTTITVLVPPRNLMIDIQKDTAVEGEIEIVNCTAMASKPATIRWF 180
Qy 181 KGNTLKGKSEVEWSDMYTTSQMLKVHKEDDGPVICQVEHPATVGNLQRYLEVQ 240
Db 181 KGNTLKGKSEVEWSDMYTTSQMLKVHKEDDGPVICQVEHPATVGNLQRYLEVQ 240
Qy 241 YKQVHQMITYPLOGITREGDALELTCFAIGKQPPVMTVVRVDDDEMPQHAVISGPNLFI 300
```

```
Db 241 YKPOVHIQMTYPLQGLTRREGDALELTCEAIGKPPQVMVWTVRVDDMPQHAVLSGPNLFI 300
Qy 301 NNLNKTNGTYRCASINIVGAHSDYMLVYVDPPTTIPPTTTTTTTTTTTTTTTTTIITD 360
Db 301 NNLNKTNGTYRCASINIVGAHSDYMLVYVDPPTTIPPTTTTTTTTTTTTTTTTTIITD 360
Qy 361 SRAGEEGSIKRAVDHAGVGGVAVVFAWMLCLLIILGRYFAHKGTYETHEAKGADDAADA 420
Db 361 SRAGEEGSIKRAVDHAGVGGVAVVFAWMLCLLIILGRYFAHKGTYETHEAKGADDAADA 420
Qy 421 DTALINAEAGGQNNSEKKEYFI 442
Db 421 DTALINAEAGGQNNSEKKEYFI 442

RESULT 2
AA94341
ID AA94341 standard; protein; 442 AA.
XX
AC AA94341;
XX
DT 22-AUG-2000 (first entry)
XX
DE Human cell surface receptor protein #8.
XX
KW Human; HCSR; cytosolic; antiarthritic; antirheumatic; antiasthmatic;
KW immunosuppressive; antiarteriosclerotic; antibacterial; antiparasitic;
KW neuroprotective; nontropic; anticonvulsant; cancer; leukaemia; melanoma;
KW rheumatoid arthritis; asthma; atherosclerosis; akathesia;
KW Alzheimer's diseases; multiple sclerosis; epilepsy.
XX
OS Homo sapiens.
XX
FH Key Location/Qualifiers
FT Peptide 1..44
FT Protein /label= Signal_peptide
FT /label= HCSR-8
FT Region 53
FT Domain 57..126
FT /label= Immunoglobulin_domain
FT Region 67
FT Region 101
FT Region 103
FT Region 103
FT Region 113
FT Region 115
FT Region 155
FT Region 159..222
FT Domain /label= Immunoglobulin_domain
FT Region 165
FT Region 176
FT Region 190
FT Region 233
FT Region 241
FT Region 260..315
FT Domain /label= Immunoglobulin_domain
FT Region 304
FT Region 308
FT Region 310
FT Region 310
```

```
FT Region /note= "potential phosphorylation site"
FT 329
FT /note= "potential phosphorylation site"
FT 368
FT /note= "potential phosphorylation site"
FT 375..394
FT Domain /label= Transmembrane_domain
FT 432
FT /note= "potential glycosylation site"
XX
XX WO200028032-A2.
XX
XX 18-MAY-2000.
XX
XX 12-NOV-1999; 99WO-US026742.
XX
XX 12-NOV-1998; 98US-00191280.
XX 07-DEC-1998; 98US-00206647.
XX 08-MAR-1999; 99US-0123404P.
XX
XX (INCY-) INCYTE PHARM INC.
XX
XX Tang YT, Corley NC, Guegler KJ, Yue H, Baughn MR, Lal P;
XX Hillman JL, Bandman O, Azimzai Y, Au-Young J;
XX
XX WPI; 2000-376546/32.
XX N-PSDB; AAA27051.
XX
XX New human cell surface receptor protein and polynucleotide useful for
XX diagnosis, prevention and treatment of cancer, immune disorders,
XX infection and neuronal disorders.
XX
XX Claim 1; Page 81-82; 97pp; English.
XX
XX The present sequence is a novel human cell surface receptor protein
XX (HCSR) designated HCSR-8. The nucleotide sequence was identified in
XX Incyte Clone 312256 from the cDNA library LUNGNOT02, which was made from
XX RNA isolated from lung tissue. A number of Incyte Clones were used to
XX assemble the consensus sequence. BLAST analysis showed that the sequence
XX is homologous to immuno-superfamily protein B12 g3779242. HCSR and its
XX antagonist are useful for preventing or treating disorders associated
XX with decreased or increased expression or activity of HCSR. Such
XX disorders include cancers such as leukaemia and melanoma, immune
XX disorders such as rheumatoid arthritis, asthma and atherosclerosis,
XX bacterial and parasitic infections and neuronal disorders such as
XX akathesia, Alzheimer's disease, multiple sclerosis and epilepsy.
XX Polynucleotides encoding HCSRs may be used as hybridisation probes to
XX diagnose these conditions. Anti-HCSR antibodies may be used as
XX antagonists, as a targeting or delivery mechanism for bringing
XX pharmaceutical agents into contact with cells or tissues expressing HCSR
XX and for diagnosis of HCSR-related disorders. HCSR and its catalytic or
XX immunogenic fragments are useful for drug screening using libraries of
XX compounds
XX
XX Sequence 442 AA;
Qy Query Match 100.0%; Score 442; DB 3; Length 442;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 442; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 MASVLPSSGSCQCAAAAAAAPPGLRLRLLLLLLSAAALPTGGQNLFTKDVTVIEGEVA 60
Db /note= "potential phosphorylation site"
1 MASVLPSSGSCQCAAAAAAAPPGLRLRLLLLLLSAAALPTGGQNLFTKDVTVIEGEVA 60
Qy 61 TISCVNKSDDSVIQLLNPNRQTYFRDPLKDSFQLNFSSELKVSITNVSISDEG 120
Db /note= "potential phosphorylation site"
61 TISCVNKSDDSVIQLLNPNRQTYFRDPLKDSFQLNFSSELKVSITNVSISDEG 120
Qy 121 RYFCQLYTDPPQESYTTITVLVPPRNLMDIQDVAVEGEIEVNCCTAMASKPATIRWF 180
Db /note= "potential glycosylation site"
121 RYFCQLYTDPPQESYTTITVLVPPRNLMDIQDVAVEGEIEVNCCTAMASKPATIRWF 180
Qy 181 KGNETLKGKSEVBESWSDMYTTSQMLKVKHKKDDGVPVICQVEHPAVTGNLQTOQRYLEVQ 240
```



```
XX DE Human tumour suppressor lung cancer 1 (TSLC1) polypeptide.
XX KW Human; hepatocellular carcinoma; tumour suppressor lung cancer 1; TSLC1;
XX KW liver; lung; pancreatic cancer; cell proliferative disorder; cytostatic;
XX KW gene therapy.
XX KW
XX OS Homo sapiens.
XX FN WO200214557-A1.
XX PD 21-FEB-2002.
XX PF 15-AUG-2001; 2001WO-US025690.
XX PR 15-AUG-2000; 2000US-0225264P.
XX PA (UWJO ) UNIV JOHNS HOPKINS SCHOOL MEDICINE.
XX PI Reeves RH, Yoshinori M;
XX DR WPI; 2002-241913/29.
XX PT Detecting cell proliferative disorder associated with tumor suppressor
XX PT lung cancer (TSLC) 1 in subject, comprises contacting proliferating cell
XX PT of subject with reagent detecting TSLC1 and detecting modification in
XX PT TSLC1 level.
XX PS Disclosure; Page 49-50; 59pp; English.
XX CC The invention relates to a method for detecting cell proliferative
XX CC disorder associated with tumour suppressor lung cancer 1 (TSLC1) in a
XX CC subject. The method comprising contacting a cell component of a
XX CC proliferating cell with a reagent that detects level of the cell
XX CC component in the proliferating cell and determining modification in the
XX CC level of the cell component in proliferating cell as compared with a
XX CC healthy cell, where modification indicates disorder associated with a
XX CC TSLC1. The method is useful for detecting a cell proliferative disorder
XX CC (e.g. liver, lung or pancreatic cancer) associated with tumour suppressor
XX CC lung cancer 1 (TSLC1) in a subject. The invention is useful in gene
XX CC therapy and for treating a cell proliferative disorder such as lung
XX CC cancer (human non-small cell lung cancer), liver cancer (hepatocellular
XX CC carcinoma) or pancreatic cancer associated with modification of TSLC1
XX CC production, where a reagent which modulates (preferably, increases) TSLC1
XX CC level in the cells, is employed. The present sequence is human TSLC1
XX SQ Sequence 442 AA;

Query Match 100.0%; Score 442; DB 5; Length 442;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 442; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MASVLPSSGSCAAAAAAPPGLRLRLLLLSAAALPTGQGNLFTKDVTVIEGEVA 60
DB 1 MASVLPSSGSCAAAAAAPPGLRLRLLLLSAAALPTGQGNLFTKDVTVIEGEVA 60
QY 61 TISQVKNKSDSVIQLNPNRTIYFRDPLKDSRFQLNFSSELKVLSTNVSISDEG 120
DB 61 TISQVKNKSDSVIQLNPNRTIYFRDPLKDSRFQLNFSSELKVLSTNVSISDEG 120
QY 121 RYFCQLTDPQSSYTTITVLVPPRNLMIDIKDQTAVEGEIEVNCVTAMASKPATIRWF 180
DB 121 RYFCQLTDPQSSYTTITVLVPPRNLMIDIKDQTAVEGEIEVNCVTAMASKPATIRWF 180
QY 181 KGNTLKGKSEVEBSWDMYTTISQLMLKVHKEDDGVVICQVEHPAVTGNLQRYLEVQ 240
DB 181 KGNTLKGKSEVEBSWDMYTTISQLMLKVHKEDDGVVICQVEHPAVTGNLQRYLEVQ 240
QY 241 YKPVHILQMTYPLQGLTREGDALELTCEAIKGPQPMVMTWVRVDDENPQHAVLSGPNLFI 300
DB 241 YKPVHILQMTYPLQGLTREGDALELTCEAIKGPQPMVMTWVRVDDENPQHAVLSGPNLFI 300
QY 301>NNLNKTDNGTYRCEASNIVGKAHSDYMLYVYDPTTIPPTTTTTTTTTTILTIITD 360

301>NNLNKTDNGTYRCEASNIVGKAHSDYMLYVYDPTTIPPTTTTTTTTTTILTIITD 360
361>SRAGEGSIKRAVDHAVIGGVVAVVVFAMLCIIILGRYFARHKGTYFTHAKGADDAADA 420
361>SRAGEGSIKRAVDHAVIGGVVAVVVFAMLCIIILGRYFARHKGTYFTHAKGADDAADA 420
421>DTAIINAEGGQNNSEKKEYFI 442
421>DTAIINAEGGQNNSEKKEYFI 442

RESULT 5
ABP62825
ID ABP62825 standard; protein; 442 AA.
XX AC ABP62825;
XX DT 14-OCT-2002 (first entry)
XX DE Human polypeptide SEQ ID NO 262.
XX KW Human; vulnery; dermatological; neuroprotective; nootropic; cancer;
XX KW antiparkinsonian; immunostimulant; cytostatic; immunosuppressive;
XX KW antidiabetic; antiallergic; gene therapy; wound healing; tissue repair;
XX KW burn; central nervous system disorder; Alzheimer's disease;
XX KW Parkinson's disease; Huntington's disease; immune disorder;
XX KW autoimmune disorder; multiple sclerosis; diabetes; allergy.
XX OS Homo sapiens.
XX PN WO200218424-A2.
XX PD 07-MAR-2002.
XX PF 31-AUG-2001; 2001WO-US027093.
XX PR 01-SEP-2000; 2000US-00654935.
XX PA (HYSE-) HYSEQ INC.
XX PI Tang YT, Asundi V, Zhou P, Xue AJ, Ren F, Zhang J, Wang J;
XX PI Zhao QA, Wang D, Liu C, Drmanac RT, Wehrman T;
XX DR WPI; 2002-583321/62.
XX DR N-PSDB; ABQ93304.
XX PT New polynucleotide and polypeptides, useful for treatment and diagnosis
XX PT of Alzheimer's, Parkinson's, Huntington's, amyotrophic lateral
XX PT sclerosis, immune deficiencies, cancer, autoimmune disorders, multiple
XX PT sclerosis, diabetes and allergies.
XX PS Claim 20; SEQ ID NO 262; 284pp + Sequence Listing; English.
XX CC The invention relates to an isolated polynucleotide (I) comprising one of
XX CC 245 sequences (ABQ93288-ABQ9332). Treating a condition comprising
XX CC administering to a mammalian subject a composition comprising the protein
XX CC (II) encoded by (I) (ABP62809-ABP63053) or an antibody (III) to (II).
XX CC (I), (II) and (III) are useful for diagnostic evaluation of disorders.
XX CC (I) is useful for gene therapy of diseases and (II) can be used for
XX CC therapeutic treatment. Diseases that may be treated include wound healing
XX CC and tissue repair, burns, central nervous system disorders (e.g.
XX CC Alzheimer's, Parkinson's, Huntington's and amyotrophic lateral
XX CC sclerosis), immune deficiencies, cancer, autoimmune disorders, multiple
XX CC sclerosis, diabetes and allergies. Note: The sequence data for this
XX CC patent did not form part of the printed specification, but was obtained
XX CC in electronic format directly from WIPO at
XX CC ftp.wipo.int/pub/published_pct_sequences
XX SQ Sequence 442 AA;

Query Match 100.0%; Score 442; DB 5; Length 442;
Best Local Similarity 100.0%; Pred. No. 0;
```

| | |
|--|---|
| Matches 442; Conservative 0; Mismatches 0; Indels 0; Gaps 0; | |
| Qy | 1 MASVLPSSGSCAAAAAAPPGLRLRLLLLSAALIPGTGQNLFTKDVTVIEGEVA 60 |
| Db | 1 MASVLPSSGSCAAAAAAPPGLRLRLLLLSAALIPGTGQNLFTKDVTVIEGEVA 60 |
| Qy | 61 TISQVNSKSDSVIQLLNPRTIYFRDPLKDSRFQLNFSSELKVSILTNVSI SDEG 120 |
| Db | 61 TISQVNSKSDSVIQLLNPRTIYFRDPLKDSRFQLNFSSELKVSILTNVSI SDEG 120 |
| Qy | 121 RYFCQLYTDPQESYTTITVLVPPRNLMIDIQKDTAVEGEIEVNCCTAMASKPATIRWF 180 |
| Db | 121 RYFCQLYTDPQESYTTITVLVPPRNLMIDIQKDTAVEGEIEVNCCTAMASKPATIRWF 180 |
| Qy | 181 KGNTLKGKSEVEWSDMYTTVTSQMLKVHKEDDGVPI COVEHPAVTGNLQRYLEVQ 240 |
| Db | 181 KGNTLKGKSEVEWSDMYTTVTSQMLKVHKEDDGVPI COVEHPAVTGNLQRYLEVQ 240 |
| Qy | 241 YKPQVHIQMTYPLQGLTREGDALELTCEAIGKQPQVMVTVRVDDENPQHAVLSGPNLFI 300 |
| Db | 241 YKPQVHIQMTYPLQGLTREGDALELTCEAIGKQPQVMVTVRVDDENPQHAVLSGPNLFI 300 |
| Qy | 301 NNLKNTDNGTVRCASINIVGKAHSDYMLVYVDPPTTPTTTTTTTTTTTTTILTIITD 360 |
| Db | 301 NNLKNTDNGTVRCASINIVGKAHSDYMLVYVDPPTTPTTTTTTTTTTTTTILTIITD 360 |
| Qy | 361 SRAGEGSIRAVDHAVIGGVAVVFAVLCILILGRVFARHKGTYFTHKAGGADDAADA 420 |
| Db | 361 SRAGEGSIRAVDHAVIGGVAVVFAVLCILILGRVFARHKGTYFTHKAGGADDAADA 420 |
| Qy | 421 DTAIINAEAGGQNNSEKKEYFI 442 |
| Db | 421 DTAIINAEAGGQNNSEKKEYFI 442 |
| RESULT 6 | |
| ADA271144 | |
| ID | ADA271144 standard; protein; 442 AA. |
| XX | ADA271144; |
| AC | ADA271144; |
| XX | 20-NOV-2003 (first entry) |
| DT | Human novel secreted protein from gene 11 #3. |
| XX | |
| XX | cytostatic; antiinflammatory; immunomodulator; neuroprotective; |
| KW | hemostatic; gene therapy; cancer; inflammation; immune disorder; |
| KW | neurological disorder; blood clotting disorder; food additive; |
| KW | preservative; human; secreted protein. |
| XX | |
| OS | Homo sapiens. |
| XX | |
| XX | US2003055231-A1. |
| XX | 20-MAR-2003. |
| XX | 29-OCT-2001; 2001US-00984130. |
| XX | |
| PR | 28-OCT-1998; 98US-0105971P. |
| PR | 27-OCT-1999; 99WO-US025031. |
| PR | 19-APR-2000; 2000US-0198407P. |
| PR | 30-OCT-2000; 2000US-0243792P. |
| PR | 18-APR-2001; 2001US-00836353. |
| XX | |
| XX | (NIJ/) NI J. |
| PA | (YOUN/) YOUNG P E. |
| PA | (KENN/) KENNY J J. |
| PA | (OLSE/) OLSEN H S. |
| PA | (MOOR/) MOORE P A. |
| PA | (WEI/) WEI Y. |
| PA | (GREE/) GREENE J M. |
| PA | (RUBE/) RUBEN S M. |
| PA | (LIUD/) LIU D. |

| | |
|--|---|
| (CROC/) CROCKER P R. | |
| PA | Ni J, Young PE, Kenny JJ, Olsen HS, Moore PA, Wei Y, Greene JM; |
| XX | Ruben SM, Liu D, Crocker PR; |
| PI | WPI; 2003-567103/53. |
| DR | |
| XX | New human secreted nucleic acid molecules and polypeptides, useful for |
| XX | preventing, treating, or ameliorating a medical condition, such as |
| PT | cancer, inflammation, immune disorders, neurological and blood clotting |
| PT | disorders. |
| XX | |
| PS | Disclosure; Page 72; 454pp; English. |
| XX | |
| CC | The invention relates to an isolated nucleic molecule that is at least |
| CC | 9% identical to 18 human cDNA sequences representing 12 novel genes |
| CC | encoding secreted proteins or a polynucleotide fragment of the cDNA |
| CC | sequence contained in American Type Culture Collection (ATCC) deposit No. |
| CC | defined in the specification, its species homologue, a variant or allelic |
| CC | variant of the polynucleotide having a polynucleotide capable of |
| CC | hybridising under conditions the polynucleotide, where the polynucleotide |
| CC | does not hybridise under stringent conditions to a nucleic acid molecule |
| CC | having a nucleotide sequence of only A or T residues. Also included are |
| CC | recombinant vectors, host cells (for producing the polypeptide), the |
| CC | secreted polypeptide (comprising a sequence that is at least 95% |
| CC | identical to a polypeptide fragment, domain, epitope, full-length |
| CC | protein, variant, allelic variant or species homologue), antibodies that |
| CC | specifically bind to the polypeptides, diagnosing, treating, preventing |
| CC | or ameliorating a medical condition by administering the polynucleotide |
| CC | or the polypeptide, the gene corresponding to the cDNA sequence and |
| CC | identifying an activity in a biological assay (by expressing the cDNA |
| CC | sequence in a cell, isolating the supernatant, and detecting an activity |
| CC | in a biological assay and identifying the protein in the supernatant |
| CC | having the activity). The polypeptides, nucleic acids and antibodies are |
| CC | useful for diagnosing a pathological condition or a susceptibility to a |
| CC | pathological condition, for preventing, treating, or ameliorating a |
| CC | medical condition, such as cancer, inflammation and other immune |
| CC | disorders, neurological and blood clotting disorders (many examples are |
| CC | given in the specification). The nucleic acids are also useful for |
| CC | chromosome identification, radiation hybrid mapping or long-range |
| CC | restriction mapping. The polypeptides and antibodies are useful for |
| CC | providing immunological probes for differential identification of the |
| CC | tissues immunohistochemistry assays. The polypeptide, polynucleotide, |
| CC | agonist or antagonist may also be used as a food additive or preservative |
| CC | to increase or decrease storage capabilities, fat content or other |
| CC | nutritional components. The present is a secreted protein of the |
| CC | invention. |
| XX | |
| XX | Sequence 442 AA; |
| Query Match 100.0%; Score 442; DB 6; Length 442; | |
| Best Local Similarity 100.0%; Pred. No. 0; | |
| Matches 442; Conservative 0; Mismatches 0; Indels 0; Gaps 0; | |
| Qy | 1 MASVLPSSGSCAAAAAAPPGLRLRLLLLSAALIPGTGQNLFTKDVTVIEGEVA 60 |
| Db | 1 MASVLPSSGSCAAAAAAPPGLRLRLLLLSAALIPGTGQNLFTKDVTVIEGEVA 60 |
| Qy | 61 TISQVNSKSDSVIQLLNPRTIYFRDPLKDSRFQLNFSSELKVSILTNVSI SDEG 120 |
| Db | 61 TISQVNSKSDSVIQLLNPRTIYFRDPLKDSRFQLNFSSELKVSILTNVSI SDEG 120 |
| Qy | 121 RYFCQLYTDPQESYTTITVLVPPRNLMIDIQKDTAVEGEIEVNCCTAMASKPATIRWF 180 |
| Db | 121 RYFCQLYTDPQESYTTITVLVPPRNLMIDIQKDTAVEGEIEVNCCTAMASKPATIRWF 180 |
| Qy | 181 KGNTLKGKSEVEWSDMYTTVTSQMLKVHKEDDGVPI COVEHPAVTGNLQRYLEVQ 240 |
| Db | 181 KGNTLKGKSEVEWSDMYTTVTSQMLKVHKEDDGVPI COVEHPAVTGNLQRYLEVQ 240 |
| Qy | 241 YKPQVHIQMTYPLQGLTREGDALELTCEAIGKQPQVMVTVRVDDENPQHAVLSGPNLFI 300 |
| Db | 241 YKPQVHIQMTYPLQGLTREGDALELTCEAIGKQPQVMVTVRVDDENPQHAVLSGPNLFI 300 |

QY 301 NNLKNTDNGTYRCASNIIVGKASDYMIVYVDPPTTIPPPTTTTTTTTTTTTTTTTTTTT 360
DB 301 NNLKNTDNGTYRCASNIIVGKASDYMIVYVDPPTTIPPPTTTTTTTTTTTTTTTTTTTT 360
QY 361 SRAGEEGSIRAVDHAVIGGVAVVVFAMLCILIIILGRYFARHKGTFTTHEAKGADDAADA 420
DB 361 SRAGEEGSIRAVDHAVIGGVAVVVFAMLCILIIILGRYFARHKGTFTTHEAKGADDAADA 420

QY 421 DTAINAEGGQNNSEKKEYFI 442
DB 421 DTAINAEGGQNNSEKKEYFI 442

RESULT 7

ID ADE54238
AC ADE54238 standard; protein; 442 AA.

XX 29-JAN-2004 (first entry)

XX Human Protein NP_055148, SEQ ID NO 41.

XX Human; pain; neuronal tissue; gene therapy;

XX spinal segmental nerve injury; chronic constriction injury; CCI;

XX spared nerve injury; SNI; Chung.

XX Homo sapiens.

XX WO2003016475-A2.

XX 27-FEB-2003.

XX 14-AUG-2002; 2002WO-US025765.

XX 14-AUG-2001; 2001US-0312147P.

XX 01-NOV-2001; 2001US-0346382P.

XX 26-NOV-2001; 2001US-0333347P.

XX (GEHO) GEN HOSPITAL CORP.

XX (FARB) BAYER AG.

XX Woolf C, D'urso D, Befort K, Costigan M;

XX WPI; 2003-268312/26.

XX GENBANK; NP_055148.

XX New composition comprising two or more isolated polypeptides, useful for

XX preparing a medicament for treating pain in an animal.

XX Claim 1; Page; 1017pp; English.

XX The invention discloses a composition comprising two or more isolated rat
XX or human polynucleotides or a polynucleotide which represents a fragment,
XX derivative or allelic variation of the nucleic acid sequence. Also
XX claimed are a vector comprising the novel polynucleotide, a host cell
XX comprising the vector, a method for identifying a nucleotide sequence
XX which is differentially regulated in an animal subjected to pain and a
XX kit to perform the method, an array, a method for identifying an agent
XX that increases or decreases the expression of the polynucleotide sequence
XX that is differentially expressed in neuronal tissue of a first animal
XX subjected to pain, a method for identifying a compound which regulates
XX the expression of a polynucleotide sequence which is differentially
XX expressed in an animal subjected to pain, a method for identifying a
XX compound that regulates the activity of one or more of the
XX polynucleotides, a method for producing a pharmaceutical composition, a
XX method for identifying a compound or small molecule that regulates the
XX activity in an animal of one or more of the polypeptides given in the
XX specification, a method for identifying a compound useful in treating
XX pain and a pharmaceutical composition comprising the one or more
XX polypeptides or their antibodies. The polynucleotide or the compound that
XX modulates its activity is useful for preparing a medicament for treating

CC pain (e.g. spinal segmental nerve injury (Chung), chronic constriction
CC injury (CCI) and spared nerve injury (SNI)) in an animal (e.g. gene
CC therapy). The sequence presented is a human protein (shown in Table 2 of
CC the specification) which is differentially expressed during pain. Note:
CC The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic form directly from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences.

XX Sequence 442 AA;

Query Match 100.0%; Score 442; DB 7; Length 442;

Best Local Similarity 100.0%; Pred. No. 0;

Matches 442; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MASVILPSGSCQCAAAAAAPPGLRLRLLLLLLFAAALIPTGQQLFTKDVTVIEGEVA 60

DB 1 MASVILPSGSCQCAAAAAAPPGLRLRLLLLLLFAAALIPTGQQLFTKDVTVIEGEVA 60

QY 61 TISCQVNSKSDSVIQLLNPNRQTIYPRDFPLKDSRFQLNFSSELKVSITNVSISDEG 120

DB 61 TISCQVNSKSDSVIQLLNPNRQTIYPRDFPLKDSRFQLNFSSELKVSITNVSISDEG 120

QY 121 RYFCQLYTDPPQESYTTITVLVPPRLMIDIQKDTAVEGEIEVNCCTAMASKPATTIRWF 180

DB 121 RYFCQLYTDPPQESYTTITVLVPPRLMIDIQKDTAVEGEIEVNCCTAMASKPATTIRWF 180

QY 181 KGNTLKGKSEVESEWSDMTVTTSQMLKVHKEDDGPVVCQVEHPAVTGNLQTOYLEVQ 240

DB 181 KGNTLKGKSEVESEWSDMTVTTSQMLKVHKEDDGPVVCQVEHPAVTGNLQTOYLEVQ 240

QY 241 YKQVHIQMTYPLQGLTREGDALELTCEAIGKQPVMVTVRVDDEMPQHAVLSGPNLFI 300

DB 241 YKQVHIQMTYPLQGLTREGDALELTCEAIGKQPVMVTVRVDDEMPQHAVLSGPNLFI 300

QY 301 NNLKNTDNGTYRCASNIIVGKASDYMIVYVDPPTTIPPPTTTTTTTTTTTTTTTTITD 360

DB 301 NNLKNTDNGTYRCASNIIVGKASDYMIVYVDPPTTIPPPTTTTTTTTTTTTTTTTITD 360

QY 361 SRAGEEGSIRAVDHAVIGGVAVVVFAMLCILIIILGRYFARHKGTFTTHEAKGADDAADA 420

DB 361 SRAGEEGSIRAVDHAVIGGVAVVVFAMLCILIIILGRYFARHKGTFTTHEAKGADDAADA 420

QY 421 DTAINAEGGQNNSEKKEYFI 442

DB 421 DTAINAEGGQNNSEKKEYFI 442

RESULT 8

ADE86685

ID ADE86685 standard; protein; 442 AA.

XX AC ADE86685;

XX 29-JAN-2004 (first entry)

XX Novel human secreted protein #11 associated protein #1.

XX human; secreted protein; cancer; liver disorder; hepatitis;

XX neural disorder; Alzheimer's disease.

XX Homo sapiens.

XX US2003129685-A1.

XX 10-JUL-2003.

XX 18-APR-2001; 2001US-00836353.

XX 28-OCT-1998; 98US-0105971P.

XX 27-OCT-1999; 99WO-US025031.

XX 19-APR-2000; 2000US-0198407P.

XX (NIJ/) NI J.

XX 18-DEC-2001 (first entry)
XX Human PRO polypeptide sequence #17.
XX PRO polypeptide; mammal; tumour; cancer; human; cattle; horse; sheep;
XX dog; cat; pig; goat; rabbit; tumour necrosis factor alpha; TNF-alpha;
XX blood; chondrocyte cell; cell proliferation; cell differentiation; colon;
XX adrenal; lung; breast; prostate; rectum; cervix; liver; genetic disorder.
XX Homo sapiens.
XX WO200168848-A2.
XX 20-SEP-2001.
XX 28-FEB-2001; 2001WO-US006520.
XX 01-MAR-2000; 2000WO-US005601.
XX 02-MAR-2000; 2000WO-US005841.
XX 03-MAR-2000; 2000US-0187202P.
XX 06-MAR-2000; 2000US-0186968P.
XX 14-MAR-2000; 2000US-0189320P.
XX 14-MAR-2000; 2000US-0189328P.
XX 15-MAR-2000; 2000WO-US006884.
XX 21-MAR-2000; 2000US-0190828P.
XX 21-MAR-2000; 2000US-0191007P.
XX 21-MAR-2000; 2000US-0191048P.
XX 21-MAR-2000; 2000US-0191314P.
XX 28-MAR-2000; 2000US-0192655P.
XX 29-MAR-2000; 2000US-0193032P.
XX 29-MAR-2000; 2000US-0193053P.
XX 30-MAR-2000; 2000WO-US008439.
XX 04-APR-2000; 2000US-0194449P.
XX 04-APR-2000; 2000US-0194647P.
XX 11-APR-2000; 2000US-0195975P.
XX 11-APR-2000; 2000US-0196000P.
XX 11-APR-2000; 2000US-0196187P.
XX 11-APR-2000; 2000US-0196680P.
XX 18-APR-2000; 2000US-0198121P.
XX 18-APR-2000; 2000US-0198585P.
XX 25-APR-2000; 2000US-0199397P.
XX 25-APR-2000; 2000US-0199550P.
XX 25-APR-2000; 2000US-0199654P.
XX 03-MAY-2000; 2000US-0201516P.
XX 17-MAY-2000; 2000WO-US013705.
XX 22-MAY-2000; 2000WO-US014042.
XX 30-MAY-2000; 2000WO-US014941.
XX 02-JUN-2000; 2000WO-US015264.
XX 05-JUN-2000; 2000US-0209832P.
XX 28-JUL-2000; 2000WO-US020710.
XX 22-AUG-2000; 2000US-00644848.
XX 24-AUG-2000; 2000WO-US023328.
XX 08-NOV-2000; 2000WO-US030952.
XX 01-DEC-2000; 2000WO-US032678.
XX 20-DEC-2000; 2000WO-US034956.
XX (GETH) GENENTECH INC.
XX Baker KP, Chen J, Desnoyers L, Goddard A, Godowski PJ, Gurney AL;
XX Pan J, Smith V, Watanabe CK, Wood WI, Zhang Z;
XX WPI; 2001-602746/68.
XX N-PSDB; AAS45941.
XX Novel nucleic acids encoding PRO polypeptides, used to diagnose the
XX presence of tumors, such as prostate and breast tumors, in mammals and to
XX screen for modulators of the compounds.
XX Claim 11; Fig 34; 774pp; English.
XX Sequences AAU29024-AAU29328 represent PRO polypeptides of the invention.

CC The PRO polypeptides and their associated nucleic acids can be used to
CC detect the presence of a tumour in a mammal by comparing the level of
CC expression of a PRO polypeptide in a test sample of cells from the animal
CC and a control sample of normal cells, whereby a higher level of
CC expression in the test sample indicates the presence of a tumour in the
CC mammal. Mammals include dogs, cats, cattle, horses, sheep, pigs, goats
CC and rabbits but are preferably human. The polypeptides can be used to
CC stimulate tumour necrosis factor (TNF) alpha release from human blood,
CC when contacted with it. A specific polypeptide can be used to stimulate
CC the proliferation or differentiation of chondrocyte cells. The PRO
CC proteins can be used to determine the presence of tumours and also
CC susceptibility to tumour development, particularly adrenal, lung, colon,
CC breast, prostate, rectal, cervical, or liver tumours, in mammalian
CC subjects. The oligonucleotide probes specific for the PRO nucleic acids
CC can be used for genetic analysis of individuals with genetic disorders
XX
SQ Sequence 440 AA;
Query Match 94.3%; Score 417; DB 4; Length 440;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 26 LRLLLLLFSAALIPITGCGNLPTKDVTVIEGVATISQVKNKSDSVIQLLNPRTIY 85
Db LRLLLLLFSAALIPITGCGNLPTKDVTVIEGVATISQVKNKSDSVIQLLNPRTIY 83
Qy 86 FRDPRPKDSRFOLLNFSSELKVSITNVYSISDEGRYFCOLYTDPPQESYTTITVLVPPR 145
Db FRDPRPKDSRFOLLNFSSELKVSITNVYSISDEGRYFCOLYTDPPQESYTTITVLVPPR 143
Qy 146 NLMIDIQKDTAVEGEEIEVNCCTAMASKPATITIRWFKGNTLKGKSEVEWSDMYTTSOL 205
Db NLMIDIQKDTAVEGEEIEVNCCTAMASKPATITIRWFKGNTLKGKSEVEWSDMYTTSOL 203
Qy 206 MLKVHKEDGVPVICQVEHPAVTGNLQTORYLEVQVKPQVHIQMTYPLQGLTREGDALEL 265
Db MLKVHKEDGVPVICQVEHPAVTGNLQTORYLEVQVKPQVHIQMTYPLQGLTREGDALEL 263
Qy 266 TCEAIGKQPQVWVTVWRVDDMPQHAVLSGPNLFINLNKTDNGTYRCEASNVGKAHSD 325
Db TCEAIGKQPQVWVTVWRVDDMPQHAVLSGPNLFINLNKTDNGTYRCEASNVGKAHSD 323
Qy 326 YMLYVYDPPPTTIPPPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTDSRAGEEGSIRAVDHAVIGGVAVVV 385
Db YMLYVYDPPPTTIPPPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTDSRAGEEGSIRAVDHAVIGGVAVVV 383
Qy 386 FAMLCLLIILGRYFARHKGTYFTHEAKGADDAADADATAIINAEQQNNSEKKEYFI 442
Db FAMLCLLIILGRYFARHKGTYFTHEAKGADDAADADATAIINAEQQNNSEKKEYFI 440
RESULT 12
ABU58416
ID ABU58416 standard; protein; 440 AA.
XX
AC ABU58416;
XX
DT 15-APR-2003 (first entry)
XX
DE Human PRO polypeptide #17.
XX
KW Human; PRO; cytostatic; tumour; cancer; breast; lung; stomach; liver;
KW dog; cat; cow; horse; sheep; pig; goat; rabbit; ADEPT;
KW antibody-dependent enzyme mediated prodrug therapy.
XX
OS Homo sapiens.
XX
PN US2003027272-A1.
XX
XX 06-FEB-2003.
XX
XX 21-JUN-2002; 2002US-00176492.
XX

PR 18-SEP-1997; 97US-0059263P.
PR 18-SEP-1997; 97US-0059266P.
PR 17-OCT-1997; 97US-0062250P.
PR 21-OCT-1997; 97US-0063486P.
PR 24-OCT-1997; 97US-0063120P.
PR 24-OCT-1997; 97US-0063121P.
PR 28-OCT-1997; 97US-0063540P.
PR 28-OCT-1997; 97US-0063541P.
PR 28-OCT-1997; 97US-0063544P.
PR 28-OCT-1997; 97US-0063564P.
PR 29-OCT-1997; 97US-0063734P.
PR 31-OCT-1997; 97US-0063870P.
PR 31-OCT-1997; 97US-0064103P.
PR 11-NOV-1997; 97US-0065311P.
PR 21-NOV-1997; 97US-0066120P.
PR 24-NOV-1997; 97US-0066466P.
PR 24-NOV-1997; 97US-0066772P.
PR 11-DEC-1997; 97US-0069335P.
PR 12-DEC-1997; 97US-0069425P.
PR 17-DEC-1997; 97US-0069870P.
PR 18-DEC-1997; 97US-0068017P.
PR 10-MAR-1998; 98US-0077450P.
PR 11-MAR-1998; 98US-0077632P.
PR 11-MAR-1998; 98US-0077649P.
PR 20-MAR-1998; 98US-0078886P.
PR 20-MAR-1998; 98US-0078939P.
PR 27-MAR-1998; 98US-0079664P.
PR 27-MAR-1998; 98US-0079786P.
PR 31-MAR-1998; 98US-0080107P.
PR 31-MAR-1998; 98US-0080194P.
PR 01-APR-1998; 98US-0080327P.
PR 01-APR-1998; 98US-0080333P.
PR 08-APR-1998; 98US-0081049P.
PR 08-APR-1998; 98US-0081070P.
PR 09-APR-1998; 98US-0081195P.
PR 15-APR-1998; 98US-0081838P.
PR 21-APR-1998; 98US-0082568P.
PR 21-APR-1998; 98US-0082569P.
PR 22-APR-1998; 98US-0082704P.
PR 22-APR-1998; 98US-0082797P.
PR 28-APR-1998; 98US-0083322P.
PR 29-APR-1998; 98US-0083495P.
PR 29-APR-1998; 98US-0083496P.
PR 23-APR-1998; 98US-0083499P.
PR 29-APR-1998; 98US-0083559P.
PR 05-MAY-1998; 98US-0084366P.
PR 06-MAY-1998; 98US-0084414P.
PR 07-MAY-1998; 98US-0084639P.
PR 07-MAY-1998; 98US-0084640P.
PR 07-MAY-1998; 98US-0084643P.
PR 15-MAY-1998; 98US-0085579P.
PR 15-MAY-1998; 98US-0085580P.
PR 15-MAY-1998; 98US-0085582P.
PR 15-MAY-1998; 98US-0085700P.
PR 18-MAY-1998; 98US-0086023P.
PR 22-MAY-1998; 98US-0086332P.
PR 22-MAY-1998; 98US-0086486P.
PR 28-MAY-1998; 98US-0087098P.
PR 28-MAY-1998; 98US-0087208P.
PR 02-JUN-1998; 98US-0087609P.
PR 02-JUN-1998; 98US-0087759P.
PR 03-JUN-1998; 98US-0087827P.
PR 04-JUN-1998; 98US-0088025P.
PR 04-JUN-1998; 98US-0088028P.
PR 04-JUN-1998; 98US-0088029P.
PR 04-JUN-1998; 98US-0088033P.
PR 04-JUN-1998; 98US-0088326P.
PR 05-JUN-1998; 98US-0088167P.
PR 05-JUN-1998; 98US-0088202P.
PR 05-JUN-1998; 98US-0088212P.
PR 05-JUN-1998; 98US-0088217P.
PR 09-JUN-1998; 98US-0088655P.
PR 10-JUN-1998; 98US-0088722P.

PR 10-JUN-1998; 98US-0088738P.
PR 10-JUN-1998; 98US-0088740P.
PR 10-JUN-1998; 98US-0088811P.
PR 10-JUN-1998; 98US-0088824P.
PR 10-JUN-1998; 98US-0088825P.
PR 10-JUN-1998; 98US-0088826P.
PR 11-JUN-1998; 98US-0088861P.
PR 11-JUN-1998; 98US-0088863P.
PR 11-JUN-1998; 98US-0088876P.
PR 12-JUN-1998; 98US-0089090P.
PR 12-JUN-1998; 98US-0089105P.
PR 16-JUN-1998; 98US-0089512P.
PR 16-JUN-1998; 98US-0089514P.
PR 17-JUN-1998; 98US-0089538P.
PR 17-JUN-1998; 98US-0089598P.
PR 17-JUN-1998; 98US-0089653P.
PR 18-JUN-1998; 98US-0089908P.
PR 19-JUN-1998; 98US-0089952P.
PR 22-JUN-1998; 98US-0090246P.
PR 22-JUN-1998; 98US-0090252P.
PR 22-JUN-1998; 98US-0090254P.
PR 24-JUN-1998; 98US-0090429P.
PR 24-JUN-1998; 98US-0090435P.
PR 24-JUN-1998; 98US-0090444P.
PR 24-JUN-1998; 98US-0090461P.
PR 24-JUN-1998; 98US-0090535P.
PR 24-JUN-1998; 98US-0090540P.
PR 25-JUN-1998; 98US-0090676P.
PR 25-JUN-1998; 98US-0090678P.
PR 25-JUN-1998; 98US-0090688P.
PR 25-JUN-1998; 98US-0090690P.
PR 25-JUN-1998; 98US-0090694P.
PR 25-JUN-1998; 98US-0090695P.
PR 25-JUN-1998; 98US-0090696P.
PR 26-JUN-1998; 98US-00105413.
PR 26-JUN-1998; 98US-0090862P.
PR 26-JUN-1998; 98US-0090863P.
PR 26-JUN-1998; 98US-0091010P.
PR 01-JUL-1998; 98US-0091359P.
PR 01-JUL-1998; 98US-0091544P.
PR 02-JUL-1998; 98US-0091478P.
PR 02-JUL-1998; 98US-0091486P.
PR 02-JUL-1998; 98US-0091626P.
PR 02-JUL-1998; 98US-0091628P.
PR 24-JUL-1998; 98US-0091632P.
PR 04-AUG-1998; 98US-0095282P.
PR 10-AUG-1998; 98US-0095988P.
PR 10-AUG-1998; 98US-0096012P.
PR 17-AUG-1998; 98US-0096757P.
PR 17-AUG-1998; 98US-0096766P.
PR 17-AUG-1998; 98US-0096867P.
PR 17-AUG-1998; 98US-0096891P.
PR 17-AUG-1998; 98US-0096897P.
PR 18-AUG-1998; 98US-0096949P.
PR 18-AUG-1998; 98US-0096959P.
PR 18-AUG-1998; 98US-0097022P.
PR 26-AUG-1998; 98US-0097952P.
PR 26-AUG-1998; 98US-0097954P.
PR 26-AUG-1998; 98US-0097955P.
PR 26-AUG-1998; 98US-0097971P.
PR 26-AUG-1998; 98US-0097974P.
PR 26-AUG-1998; 98US-0098014P.
PR 01-SEP-1998; 98US-0098716P.
PR 01-SEP-1998; 98US-0098723P.
PR 02-SEP-1998; 98US-0098803P.
PR 02-SEP-1998; 98US-0098821P.
PR 02-SEP-1998; 98US-0098843P.
PR 03-SEP-1998; 98US-0099602P.
PR 10-SEP-1998; 98US-0099741P.
PR 10-SEP-1998; 98US-0099754P.
PR 10-SEP-1998; 98US-0099763P.
PR 10-SEP-1998; 98US-00999812P.

| | | |
|--|--------------|---|
| PR | 18-MAY-1998; | 98US-0086023P. |
| PR | 22-MAY-1998; | 98US-0086392P. |
| PR | 22-MAY-1998; | 98US-0086486P. |
| PR | 28-MAY-1998; | 98US-0087098P. |
| PR | 28-MAY-1998; | 98US-0087208P. |
| PR | 02-JUN-1998; | 98US-0087609P. |
| PR | 02-JUN-1998; | 98US-0087759P. |
| PR | 03-JUN-1998; | 98US-0087827P. |
| PR | 04-JUN-1998; | 98US-0088025P. |
| PR | 04-JUN-1998; | 98US-0088028P. |
| PR | 04-JUN-1998; | 98US-0088029P. |
| PR | 04-JUN-1998; | 98US-0088033P. |
| PR | 05-JUN-1998; | 98US-0088326P. |
| PR | 05-JUN-1998; | 98US-0088167P. |
| PR | 05-JUN-1998; | 98US-0088202P. |
| PR | 05-JUN-1998; | 98US-0088212P. |
| PR | 05-JUN-1998; | 98US-0088217P. |
| PR | 09-JUN-1998; | 98US-0088655P. |
| PR | 10-JUN-1998; | 98US-0088722P. |
| PR | 10-JUN-1998; | 98US-0088738P. |
| PR | 10-JUN-1998; | 98US-0088740P. |
| PR | 10-JUN-1998; | 98US-0088811P. |
| PR | 10-JUN-1998; | 98US-0088824P. |
| PR | 10-JUN-1998; | 98US-0088825P. |
| PR | 10-JUN-1998; | 98US-0088826P. |
| PR | 11-JUN-1998; | 98US-0088861P. |
| PR | 11-JUN-1998; | 98US-0088863P. |
| PR | 11-JUN-1998; | 98US-0088876P. |
| PR | 12-JUN-1998; | 98US-0089090P. |
| PR | 12-JUN-1998; | 98US-0089105P. |
| PR | 16-JUN-1998; | 98US-0089512P. |
| PR | 16-JUN-1998; | 98US-0089544P. |
| PR | 17-JUN-1998; | 98US-0089538P. |
| PR | 17-JUN-1998; | 98US-0089598P. |
| PR | 17-JUN-1998; | 98US-0089653P. |
| PR | 18-JUN-1998; | 98US-0089908P. |
| PR | 19-JUN-1998; | 98US-0089922P. |
| PR | 22-JUN-1998; | 98US-0090246P. |
| PR | 22-JUN-1998; | 98US-0090252P. |
| PR | 22-JUN-1998; | 98US-0090254P. |
| PR | 24-JUN-1998; | 98US-0090429P. |
| PR | 24-JUN-1998; | 98US-0090435P. |
| PR | 24-JUN-1998; | 98US-0090444P. |
| PR | 24-JUN-1998; | 98US-0090461P. |
| PR | 24-JUN-1998; | 98US-0090535P. |
| PR | 24-JUN-1998; | 98US-0090540P. |
| PR | 25-JUN-1998; | 98US-0090676P. |
| PR | 25-JUN-1998; | 98US-0090678P. |
| PR | 25-JUN-1998; | 98US-0090688P. |
| PR | 25-JUN-1998; | 98US-0090690P. |
| PR | 25-JUN-1998; | 98US-0090694P. |
| PR | 25-JUN-1998; | 98US-0090695P. |
| PR | 26-JUN-1998; | 98US-0090696P. |
| PR | 26-JUN-1998; | 98US-00105413 |
| PR | 26-JUN-1998; | 98US-0090862P. |
| PR | 26-JUN-1998; | 98US-0090863P. |
| PR | 01-JUL-1998; | 98US-0091010P. |
| PR | 01-JUL-1998; | 98US-0091359P. |
| PR | 01-JUL-1998; | 98US-0091544P. |
| PR | 02-JUL-1998; | 98US-0091478P. |
| PR | 02-JUL-1998; | 98US-0091486P. |
| PR | 02-JUL-1998; | 98US-0091626P. |
| PR | 02-JUL-1998; | 98US-0091628P. |
| PR | 02-JUL-1998; | 98US-0091632P. |
| PR | 24-JUL-1998; | 98US-0094006P. |
| PR | 04-AUG-1998; | 98US-0095282P. |
| PR | 10-AUG-1998; | 98US-0095998P. |
| PR | 10-AUG-1998; | 98US-0096012P. |
| PR | 17-AUG-1998; | 98US-0096757P. |
| PR | 17-AUG-1998; | 98US-0096766P. |
| PR | 17-AUG-1998; | 98US-0096867P. |
| PR | 17-AUG-1998; | 98US-0096891P. |
| PR | 17-AUG-1998; | 98US-0096897P. |
| PR | 18-AUG-1998; | 98US-0096949P. |
| PR | 18-AUG-1998; | 98US-0096959P. |
| PR | 26-AUG-1998; | 98US-0097952P. |
| PR | 26-AUG-1998; | 98US-0097954P. |
| PR | 26-AUG-1998; | 98US-0097955P. |
| PR | 26-AUG-1998; | 98US-0097971P. |
| PR | 26-AUG-1998; | 98US-0097974P. |
| PR | 26-AUG-1998; | 98US-0098014P. |
| PR | 01-SEP-1998; | 98US-0098716P. |
| PR | 02-SEP-1998; | 98US-0098723P. |
| PR | 02-SEP-1998; | 98US-0098803P. |
| PR | 02-SEP-1998; | 98US-0098821P. |
| PR | 03-SEP-1998; | 98US-0098843P. |
| PR | 10-SEP-1998; | 98US-0099602P. |
| PR | 10-SEP-1998; | 98US-0099741P. |
| PR | 10-SEP-1998; | 98US-0099754P. |
| PR | 10-SEP-1998; | 98US-0099763P. |
| PR | 15-SEP-1998; | 98US-0100388P. |
| PR | 16-SEP-1998; | 98US-0100662P. |
| PR | 16-SEP-1998; | 98US-0100664P. |
| PR | 16-SEP-1998; | 98US-0101751P. |
| PR | 17-SEP-1998; | 98US-0101751P. |
| PR | 17-SEP-1998; | 98US-0100683P. |
| PR | 17-SEP-1998; | 98US-0100684P. |
| PR | 17-SEP-1998; | 98US-0100919P. |
| PR | 17-SEP-1998; | 98US-0100930P. |
| PR | 18-SEP-1998; | 98US-0100849P. |
| PR | 18-SEP-1998; | 98US-0101014P. |
| PR | 18-SEP-1998; | 98US-0101068P. |
| PR | 23-SEP-1998; | 98US-0101471P. |
| PR | 23-SEP-1998; | 98US-0101472P. |
| PR | 23-SEP-1998; | 98US-0101475P. |
| PR | 23-SEP-1998; | 98US-0101477P. |
| PR | 24-SEP-1998; | 98US-0101738P. |
| PR | 24-SEP-1998; | 98US-0101739P. |
| PR | 24-SEP-1998; | 98US-0101743P. |
| PR | 24-SEP-1998; | 98US-0101922P. |
| PR | 25-SEP-1998; | 98US-0101786P. |
| PR | 25-SEP-1998; | 98US-0102207P. |
| PR | 29-SEP-1998; | 98US-0102240P. |
| PR | 29-SEP-1998; | 98US-0102330P. |
| PR | 30-SEP-1998; | 98US-0102331P. |
| PR | 30-SEP-1998; | 98US-0102487P. |
| PR | 30-SEP-1998; | 98US-0102570P. |
| PR | 01-OCT-1998; | 98US-0102571P. |
| PR | 01-OCT-1998; | 98US-0102684P. |
| PR | 02-OCT-1998; | 98US-0102687P. |
| PR | 06-OCT-1998; | 98US-0102965P. |
| PR | 06-OCT-1998; | 98US-0103258P. |
| Query Match 94.3%; Score 417; DB 6; Length 440; | | |
| Best Local Similarity 100.0%; Pred. No. 0; | | |
| Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0; | | |
| Qy | 26 | LRLLLLLSAALPTGQGNLFTKQVTVIEGEVATISQVKNKSDSVIQLLNPNRQTIY 85 |
| Db | 24 | LRLLLLLSAALPTGQGNLFTKQVTVIEGEVATISQVKNKSDSVIQLLNPNRQTIY 83 |
| Qy | 86 | FRDPRPLKDSRFQLLNPFSSSELKVSLLTNVSIISDEGRYFCQLYTDPPOESYTTITVLVPPR 145 |
| Db | 84 | FRDPRPLKDSRFQLLNPFSSSELKVSLLTNVSIISDEGRYFCQLYTDPPOESYTTITVLVPPR 143 |
| Qy | 146 | NLMIDIQDQTAVEGEIEVNTAMASKPATIIRWFKGNTLKGKSEVEWSDMYTTSOL 205 |
| Db | 144 | NLMIDIQDQTAVEGEIEVNTAMASKPATIIRWFKGNTLKGKSEVEWSDMYTTSOL 203 |
| Qy | 206 | MLKVHKEDGVPVICOVEHPAVTGNLQRYLEYQVYKPVQVHIQWYTPLOGLTREGDALEL 265 |
| Db | 204 | MLKVHKEDGVPVICOVEHPAVTGNLQRYLEYQVYKPVQVHIQWYTPLOGLTREGDALEL 263 |
| Qy | 266 | TCEAIGKQPQPMVMTWVRVDDMPQHAVLSPNLFINNKNKTNGTYRCEASINVGKAHSD 325 |

PR 12-DEC-1997; 97US-0069425P.
PR 17-DEC-1997; 97US-0069870P.
PR 18-DEC-1997; 97US-0068017P.
PR 10-MAR-1998; 98US-0077450P.
PR 11-MAR-1998; 98US-0077632P.
PR 11-MAR-1998; 98US-0077649P.
PR 20-MAR-1998; 98US-0078886P.
PR 20-MAR-1998; 98US-0078939P.
PR 27-MAR-1998; 98US-0079664P.
PR 27-MAR-1998; 98US-0079786P.
PR 31-MAR-1998; 98US-0080107P.
PR 31-MAR-1998; 98US-0080194P.
PR 01-APR-1998; 98US-0080327P.
PR 01-APR-1998; 98US-0080333P.
PR 08-APR-1998; 98US-0081049P.
PR 08-APR-1998; 98US-0081070P.
PR 09-APR-1998; 98US-0081195P.
PR 15-APR-1998; 98US-0081838P.
PR 21-APR-1998; 98US-0082568P.
PR 21-APR-1998; 98US-0082569P.
PR 22-APR-1998; 98US-0082704P.
PR 22-APR-1998; 98US-0082797P.
PR 28-APR-1998; 98US-0083322P.
PR 29-APR-1998; 98US-0083495P.
PR 29-APR-1998; 98US-0083496P.
PR 29-APR-1998; 98US-0083499P.
PR 29-APR-1998; 98US-0083559P.
PR 05-MAY-1998; 98US-0084366P.
PR 06-MAY-1998; 98US-0084414P.
PR 07-MAY-1998; 98US-0084639P.
PR 07-MAY-1998; 98US-0084640P.
PR 07-MAY-1998; 98US-0084643P.
PR 15-MAY-1998; 98US-0085579P.
PR 15-MAY-1998; 98US-0085580P.
PR 15-MAY-1998; 98US-0085582P.
PR 15-MAY-1998; 98US-0085700P.
PR 18-MAY-1998; 98US-0086023P.
PR 22-MAY-1998; 98US-0086392P.
PR 22-MAY-1998; 98US-0086486P.
PR 28-MAY-1998; 98US-0087088P.
PR 28-MAY-1998; 98US-0087208P.
PR 02-JUN-1998; 98US-0087609P.
PR 02-JUN-1998; 98US-0087759P.
PR 03-JUN-1998; 98US-0087837P.
PR 04-JUN-1998; 98US-0088025P.
PR 04-JUN-1998; 98US-0088028P.
PR 04-JUN-1998; 98US-0088029P.
PR 04-JUN-1998; 98US-0088033P.
PR 04-JUN-1998; 98US-0088326P.
PR 05-JUN-1998; 98US-0088167P.
PR 05-JUN-1998; 98US-0088202P.
PR 05-JUN-1998; 98US-0088212P.
PR 05-JUN-1998; 98US-0088217P.
PR 09-JUN-1998; 98US-0088655P.
PR 10-JUN-1998; 98US-0088722P.
PR 10-JUN-1998; 98US-0088738P.
PR 10-JUN-1998; 98US-0088740P.
PR 10-JUN-1998; 98US-0088811P.
PR 10-JUN-1998; 98US-0088824P.
PR 10-JUN-1998; 98US-0088825P.
PR 10-JUN-1998; 98US-0088826P.
PR 11-JUN-1998; 98US-0088861P.
PR 11-JUN-1998; 98US-0088863P.
PR 11-JUN-1998; 98US-0088876P.
PR 12-JUN-1998; 98US-0089090P.
PR 12-JUN-1998; 98US-0089105P.
PR 16-JUN-1998; 98US-0089512P.
PR 16-JUN-1998; 98US-0089514P.
PR 17-JUN-1998; 98US-0089538P.
PR 17-JUN-1998; 98US-0089598P.
PR 17-JUN-1998; 98US-0089653P.
PR 18-JUN-1998; 98US-0089908P.
PR 19-JUN-1998; 98US-0089952P.
PR 22-JUN-1998; 98US-0090246P.
PR 22-JUN-1998; 98US-0090252P.
PR 22-JUN-1998; 98US-0090254P.
PR 24-JUN-1998; 98US-0090429P.
PR 24-JUN-1998; 98US-0090435P.
PR 24-JUN-1998; 98US-0090444P.
PR 24-JUN-1998; 98US-0090461P.
PR 24-JUN-1998; 98US-0090535P.
PR 24-JUN-1998; 98US-0090540P.
PR 25-JUN-1998; 98US-0090676P.
PR 25-JUN-1998; 98US-0090678P.
PR 25-JUN-1998; 98US-0090688P.
PR 25-JUN-1998; 98US-0090690P.
PR 25-JUN-1998; 98US-0090694P.
PR 25-JUN-1998; 98US-0090895P.
PR 25-JUN-1998; 98US-0090896P.
PR 26-JUN-1998; 98US-00105413.
PR 26-JUN-1998; 98US-0090862P.
PR 26-JUN-1998; 98US-0090863P.
PR 26-JUN-1998; 98US-0091010P.
PR 01-JUL-1998; 98US-0091359P.
PR 01-JUL-1998; 98US-0091544P.
PR 02-JUL-1998; 98US-0091478P.
PR 02-JUL-1998; 98US-0091486P.
PR 02-JUL-1998; 98US-0091626P.
PR 02-JUL-1998; 98US-0091628P.
PR 02-JUL-1998; 98US-0091632P.
PR 24-JUL-1998; 98US-0094006P.
PR 04-AUG-1998; 98US-0095282P.
PR 10-AUG-1998; 98US-0095988P.
PR 10-AUG-1998; 98US-0096012P.
PR 17-AUG-1998; 98US-0096757P.
PR 17-AUG-1998; 98US-0096766P.
PR 17-AUG-1998; 98US-0096867P.
PR 17-AUG-1998; 98US-0096891P.
PR 17-AUG-1998; 98US-0096897P.
PR 18-AUG-1998; 98US-0096949P.
PR 18-AUG-1998; 98US-0096959P.
PR 18-AUG-1998; 98US-0097022P.
PR 26-AUG-1998; 98US-0097952P.
PR 26-AUG-1998; 98US-0097954P.
PR 26-AUG-1998; 98US-0097955P.
PR 26-AUG-1998; 98US-0097971P.
PR 26-AUG-1998; 98US-0097974P.
PR 01-SEP-1998; 98US-0098014P.
PR 01-SEP-1998; 98US-0098716P.
PR 01-SEP-1998; 98US-0098723P.
PR 02-SEP-1998; 98US-0098803P.
PR 02-SEP-1998; 98US-0098821P.
PR 02-SEP-1998; 98US-0098843P.
PR 03-SEP-1998; 98US-0099602P.
PR 10-SEP-1998; 98US-0099741P.
PR 10-SEP-1998; 98US-0099754P.
PR 10-SEP-1998; 98US-0099763P.
PR 10-SEP-1998; 98US-0099812P.
PR 15-SEP-1998; 98US-0100388P.
PR 16-SEP-1998; 98US-0100662P.
PR 16-SEP-1998; 98US-0100664P.
PR 16-SEP-1998; 98US-0101751P.
PR 16-SEP-1998; 98US-0101933P.
PR 17-SEP-1998; 98US-0100683P.
PR 17-SEP-1998; 98US-0100684P.
PR 17-SEP-1998; 98US-0100919P.
PR 17-SEP-1998; 98US-0100930P.
PR 18-SEP-1998; 98US-0100849P.
PR 18-SEP-1998; 98US-0101014P.
PR 18-SEP-1998; 98US-0101068P.
PR 23-SEP-1998; 98US-0101471P.
PR 23-SEP-1998; 98US-0101472P.
PR 23-SEP-1998; 98US-0101475P.
PR 23-SEP-1998; 98US-0101477P.
PR 24-SEP-1998; 98US-0101738P.
PR 24-SEP-1998; 98US-0101739P.


```
PR 24-SEP-1998; 98US-0101743P.
PR 24-SEP-1998; 98US-0101922P.
PR 25-SEP-1998; 98US-0101786P.
PR 29-SEP-1998; 98US-0102207P.
PR 29-SEP-1998; 98US-0102240P.
PR 29-SEP-1998; 98US-0102330P.
PR 29-SEP-1998; 98US-0102331P.
PR 30-SEP-1998; 98US-0102487P.
PR 30-SEP-1998; 98US-0102570P.
PR 30-SEP-1998; 98US-0102571P.
PR 01-OCT-1998; 98US-0102684P.
PR 01-OCT-1998; 98US-0102687P.

Query Match 94.3%; Score 417; DB 6; Length 440;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 26 LRLLLLFSAALPTGQNLFTKDVTVIEGEVATISCQVKNKSDSDSVIQLLNPNRQTIY 85
Db |||||||
Qy 24 LRLLLLFSAALPTGQNLFTKDVTVIEGEVATISCQVKNKSDSDSVIQLLNPNRQTIY 83
Db |||||||
Qy 86 FRDRPLKDSRFQLLNFSSSELKVSILNVSISDEGRYFCQLYTDPPQESYTTITVLVPPR 145
Db |||||||
Qy 84 FRDRPLKDSRFQLLNFSSSELKVSILNVSISDEGRYFCQLYTDPPQESYTTITVLVPPR 143
Db |||||||
Qy 146 NLMDIOKDTAVEGEETEVNCTANASKPATIRFKGNTELKKGSEVEESDMYTVTSOL 205
Db |||||||
Qy 144 NLMDIOKDTAVEGEETEVNCTANASKPATIRFKGNTELKKGSEVEESDMYTVTSOL 203
Db |||||||
Qy 206 MLKVHKEDDGPVLCQVEHPAVTGNLTQRYLEVQYKPVQHIOMTYPLQGLTREGDALEL 265
Db |||||||
Qy 204 MLKVHKEDDGPVLCQVEHPAVTGNLTQRYLEVQYKPVQHIOMTYPLQGLTREGDALEL 263
Db |||||||
Qy 266 TCEAIGKQPQVMVTVRVDDEMPQHAVLSGNPLFINLNKTDNGTYRCEASNIVGKAHSD 325
Db |||||||
Qy 264 TCEAIGKQPQVMVTVRVDDEMPQHAVLSGNPLFINLNKTDNGTYRCEASNIVGKAHSD 323
Db |||||||
Qy 326 YMLVYDPPPTIIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 385
Db |||||||
Qy 324 YMLVYDPPPTIIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 383
Db |||||||
Qy 386 FAMLCLLIILGRYFARHKGTYFTHEAKGADDAADATTAIINAEQQNNSEKKEFYI 442
Db |||||||
Qy 384 FAMLCLLIILGRYFARHKGTYFTHEAKGADDAADATTAIINAEQQNNSEKKEFYI 440
Db |||||||

RESULT 16
ABR65543
ID ABR65543 standard; protein; 440 AA.
AC ABR65543;
XX
XX
XX 05-AUG-2003 (first entry)
XX
XX Human secreted polypeptide PRO355, SEQ ID NO:34.
XX
XX Human; PRO; secreted protein; transmembrane protein;
XX extracellular domain; tumour necrosis factor-alpha; TNF-alpha;
XX chondrocyte; proliferation; differentiation; cartilage disorder;
XX bone disorder; arthritis; sports injury; cancer; tumour; diagnosis;
XX adrenal tumour; lung; colon; breast; prostate; kidney; rectum; cervix;
XX liver; drug screening; transgenic animal; genetic analysis;
XX antiarthritic; vulnery; gene therapy.
XX
XX Homo sapiens.
XX
XX US2003036159-A1.
XX
XX 20-FEB-2003.
XX
XX 02-JUL-2002; 2002US-00188773.
XX
XX 18-SEP-1997; 97US-0059263P.
PR 18-SEP-1997; 97US-0059266P.
PR 17-OCT-1997; 97US-0062250P.
PR 21-OCT-1997; 97US-0063486P.
PR 24-OCT-1997; 97US-0063120P.
PR 24-OCT-1997; 97US-0063121P.
PR 28-OCT-1997; 97US-0063540P.
PR 28-OCT-1997; 97US-0063541P.
PR 28-OCT-1997; 97US-0063544P.
PR 28-OCT-1997; 97US-0063564P.
PR 29-OCT-1997; 97US-0063734P.
PR 31-OCT-1997; 97US-0063870P.
PR 31-OCT-1997; 97US-0064103P.
PR 13-NOV-1997; 97US-0065311P.
PR 21-NOV-1997; 97US-0066120P.
PR 24-NOV-1997; 97US-0066456P.
PR 24-NOV-1997; 97US-0066772P.
PR 11-DEC-1997; 97US-0069335P.
PR 12-DEC-1997; 97US-0069425P.
PR 17-DEC-1997; 97US-0069870P.
PR 18-DEC-1997; 97US-0068017P.
PR 10-MAR-1998; 98US-0077450P.
PR 11-MAR-1998; 98US-0077632P.
PR 11-MAR-1998; 98US-0077649P.
PR 20-MAR-1998; 98US-0078886P.
PR 20-MAR-1998; 98US-0078939P.
PR 27-MAR-1998; 98US-0079664P.
PR 27-MAR-1998; 98US-0079786P.
PR 31-MAR-1998; 98US-0080107P.
PR 31-MAR-1998; 98US-0080194P.
PR 01-APR-1998; 98US-0080327P.
PR 01-APR-1998; 98US-0080333P.
PR 08-APR-1998; 98US-0080409P.
PR 08-APR-1998; 98US-0081070P.
PR 09-APR-1998; 98US-0081195P.
PR 15-APR-1998; 98US-0081838P.
PR 21-APR-1998; 98US-0082568P.
PR 21-APR-1998; 98US-0082569P.
PR 22-APR-1998; 98US-0082704P.
PR 22-APR-1998; 98US-0082797P.
PR 28-APR-1998; 98US-0083322P.
PR 29-APR-1998; 98US-0083495P.
PR 29-APR-1998; 98US-0083496P.
PR 29-APR-1998; 98US-0083499P.
PR 29-APR-1998; 98US-0083559P.
PR 05-MAY-1998; 98US-0084366P.
PR 06-MAY-1998; 98US-0084414P.
PR 07-MAY-1998; 98US-0084639P.
PR 07-MAY-1998; 98US-0084640P.
PR 07-MAY-1998; 98US-0084643P.
PR 15-MAY-1998; 98US-0085579P.
PR 15-MAY-1998; 98US-0085580P.
PR 15-MAY-1998; 98US-0085582P.
PR 15-MAY-1998; 98US-0085700P.
PR 18-MAY-1998; 98US-0086023P.
PR 22-MAY-1998; 98US-0086392P.
PR 22-MAY-1998; 98US-0086486P.
PR 28-MAY-1998; 98US-0087098P.
PR 28-MAY-1998; 98US-0087208P.
PR 02-JUN-1998; 98US-0087609P.
PR 02-JUN-1998; 98US-0087759P.
PR 03-JUN-1998; 98US-0087827P.
PR 04-JUN-1998; 98US-0088025P.
PR 04-JUN-1998; 98US-0088028P.
PR 04-JUN-1998; 98US-0088029P.
PR 04-JUN-1998; 98US-0088033P.
PR 04-JUN-1998; 98US-0088326P.
PR 05-JUN-1998; 98US-0088167P.
PR 05-JUN-1998; 98US-0088202P.
PR 05-JUN-1998; 98US-0088212P.
PR 05-JUN-1998; 98US-0088217P.
PR 09-JUN-1998; 98US-0088655P.
PR 10-JUN-1998; 98US-0088722P.
PR 10-JUN-1998; 98US-0088738P.
```


KW Human; secreted and transmembrane protein; PRO; TNF-alpha;
KW tumour necrosis factor alpha; chondrocyte cell; tumour; gene therapy;
KW tissue typing.
XX Homo sapiens.
XX US2003040070-A1.
XX 27-FEB-2003.
XX 27-JUN-2002; 2002US-00184627.
XX 18-SEP-1997; 97US-0059263P.
XX 18-SEP-1997; 97US-0059266P.
XX 17-OCT-1997; 97US-0062250P.
XX 21-OCT-1997; 97US-0063486P.
XX 24-OCT-1997; 97US-0063112P.
XX 24-OCT-1997; 97US-0063112P.
XX 28-OCT-1997; 97US-0063540P.
XX 28-OCT-1997; 97US-0063541P.
XX 28-OCT-1997; 97US-0063544P.
XX 28-OCT-1997; 97US-0063564P.
XX 29-OCT-1997; 97US-0063734P.
XX 31-OCT-1997; 97US-0063870P.
XX 31-OCT-1997; 97US-0064103P.
XX 13-NOV-1997; 97US-0065311P.
XX 21-NOV-1997; 97US-0066120P.
XX 24-NOV-1997; 97US-0066466P.
XX 24-NOV-1997; 97US-0066772P.
XX 11-DEC-1997; 97US-0069335P.
XX 12-DEC-1997; 97US-0069435P.
XX 17-DEC-1997; 97US-0069870P.
XX 18-DEC-1997; 97US-0068017P.
XX 10-MAR-1998; 98US-0077450P.
XX 11-MAR-1998; 98US-0077632P.
XX 11-MAR-1998; 98US-0077649P.
XX 20-MAR-1998; 98US-0078886P.
XX 20-MAR-1998; 98US-0078939P.
XX 27-MAR-1998; 98US-0079664P.
XX 27-MAR-1998; 98US-0079786P.
XX 31-MAR-1998; 98US-0080107P.
XX 31-MAR-1998; 98US-0080194P.
XX 01-APR-1998; 98US-0080327P.
XX 01-APR-1998; 98US-0080333P.
XX 08-APR-1998; 98US-0081049P.
XX 08-APR-1998; 98US-0081070P.
XX 09-APR-1998; 98US-0081195P.
XX 15-APR-1998; 98US-0081838P.
XX 21-APR-1998; 98US-0082568P.
XX 21-APR-1998; 98US-0082569P.
XX 22-APR-1998; 98US-0082704P.
XX 22-APR-1998; 98US-0082797P.
XX 28-APR-1998; 98US-0083322P.
XX 29-APR-1998; 98US-0083495P.
XX 29-APR-1998; 98US-0083496P.
XX 29-APR-1998; 98US-0083499P.
XX 29-APR-1998; 98US-0083559P.
XX 05-MAY-1998; 98US-0084366P.
XX 06-MAY-1998; 98US-0084414P.
XX 07-MAY-1998; 98US-0084639P.
XX 07-MAY-1998; 98US-0084640P.
XX 07-MAY-1998; 98US-0084643P.
XX 15-MAY-1998; 98US-0085579P.
XX 15-MAY-1998; 98US-0085580P.
XX 15-MAY-1998; 98US-0085582P.
XX 15-MAY-1998; 98US-0085700P.
XX 18-MAY-1998; 98US-0086023P.
XX 22-MAY-1998; 98US-0086392P.
XX 22-MAY-1998; 98US-0086486P.
XX 28-MAY-1998; 98US-0087098P.
XX 28-MAY-1998; 98US-0087208P.
XX 02-JUN-1998; 98US-0087609P.
XX 02-JUN-1998; 98US-0087759P.
PR 03-JUN-1998; 98US-0087827P.
PR 04-JUN-1998; 98US-0088025P.
PR 04-JUN-1998; 98US-0088028P.
PR 04-JUN-1998; 98US-0088029P.
PR 04-JUN-1998; 98US-0088033P.
PR 04-JUN-1998; 98US-0088326P.
PR 05-JUN-1998; 98US-0088167P.
PR 05-JUN-1998; 98US-0088202P.
PR 05-JUN-1998; 98US-0088212P.
PR 05-JUN-1998; 98US-0088217P.
PR 09-JUN-1998; 98US-0088655P.
PR 10-JUN-1998; 98US-0088722P.
PR 10-JUN-1998; 98US-0088738P.
PR 10-JUN-1998; 98US-0088740P.
PR 10-JUN-1998; 98US-0088811P.
PR 10-JUN-1998; 98US-0088824P.
PR 10-JUN-1998; 98US-0088825P.
PR 10-JUN-1998; 98US-0088826P.
PR 11-JUN-1998; 98US-0088861P.
PR 11-JUN-1998; 98US-0088863P.
PR 11-JUN-1998; 98US-0088876P.
PR 12-JUN-1998; 98US-0089090P.
PR 12-JUN-1998; 98US-0089105P.
PR 16-JUN-1998; 98US-0089512P.
PR 16-JUN-1998; 98US-0089514P.
PR 17-JUN-1998; 98US-0089538P.
PR 17-JUN-1998; 98US-0089598P.
PR 17-JUN-1998; 98US-0089653P.
PR 18-JUN-1998; 98US-0089908P.
PR 19-JUN-1998; 98US-0089952P.
PR 22-JUN-1998; 98US-0090246P.
PR 22-JUN-1998; 98US-0090252P.
PR 22-JUN-1998; 98US-0090254P.
PR 24-JUN-1998; 98US-0090429P.
PR 24-JUN-1998; 98US-0090435P.
PR 24-JUN-1998; 98US-0090444P.
PR 24-JUN-1998; 98US-0090461P.
PR 24-JUN-1998; 98US-0090535P.
PR 24-JUN-1998; 98US-0090540P.
PR 25-JUN-1998; 98US-0090676P.
PR 25-JUN-1998; 98US-0090678P.
PR 25-JUN-1998; 98US-0090688P.
PR 25-JUN-1998; 98US-0090690P.
PR 25-JUN-1998; 98US-0090694P.
PR 25-JUN-1998; 98US-0090695P.
PR 25-JUN-1998; 98US-0090696P.
PR 26-JUN-1998; 98US-00105413.
PR 26-JUN-1998; 98US-0090862P.
PR 26-JUN-1998; 98US-0090863P.
PR 26-JUN-1998; 98US-0091010P.
PR 01-JUL-1998; 98US-0091359P.
PR 01-JUL-1998; 98US-0091544P.
PR 02-JUL-1998; 98US-0091478P.
PR 02-JUL-1998; 98US-0091486P.
PR 02-JUL-1998; 98US-0091626P.
PR 02-JUL-1998; 98US-0091628P.
PR 02-JUL-1998; 98US-0091632P.
PR 04-AUG-1998; 98US-0094006P.
PR 04-AUG-1998; 98US-0095282P.
PR 10-AUG-1998; 98US-0095998P.
PR 10-AUG-1998; 98US-0096012P.
PR 17-AUG-1998; 98US-0096757P.
PR 17-AUG-1998; 98US-0096766P.
PR 17-AUG-1998; 98US-0096867P.
PR 17-AUG-1998; 98US-0096891P.
PR 17-AUG-1998; 98US-0096897P.
PR 18-AUG-1998; 98US-0096949P.
PR 18-AUG-1998; 98US-0096959P.
PR 18-AUG-1998; 98US-0097022P.
PR 26-AUG-1998; 98US-0097952P.
PR 26-AUG-1998; 98US-0097954P.
PR 26-AUG-1998; 98US-0097955P.
PR 26-AUG-1998; 98US-0097971P.

CC nucleotide sequence or full-length coding sequence with any of 15 fully
 CC defined sequences of 957-3441 base pairs, given in the specification; or
 CC (c) at least 80% sequence identity to a full-length coding sequence of a
 CC DNA deposited under ATCC Accession No. 209526, 209508, 209524, 209528,
 CC 209530, 209532, 209533, 209531, 209529, 209527, 209570, 209618,
 CC 209621 or 209619; (2) a vector comprising the nucleic acid; (3) a host
 CC cell comprising the vector which, when cultured under conditions suitable
 CC for expression of the PRO polypeptide, produces the PRO protein; (4) a
 CC chimeric molecule comprising PRO fused to a heterologous amino acid
 CC sequence; and (5) an anti-PRO antibody. The methods and compositions of
 CC the present invention are useful for the diagnosis and treatment of
 CC disorders associated with the PRO polypeptide, such as AIDS (acquired
 CC immunodeficiency syndrome), cancer, atherosclerosis, inflammatory
 CC disease, diabetic complications, cardiac injury and organ failure. The
 CC antibodies can also be used in the different screening, therapeutic and
 CC biological assays. The present sequence represents a PRO protein
 SQ Sequence 440 AA;

Query Match 94.3%; Score 417; DB 6; Length 440;

Best Local Similarity 100.0%; Pred. No. 0;
 Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 26 LRLLLLFSAALPTGQQLFTKQVTVIBGEVATISCVNKSDDSVIQLNPNRTIY 85
 Db 24 LRLLLLFSAALPTGQQLFTKQVTVIBGEVATISCVNKSDDSVIQLNPNRTIY 83
 Qy 86 FRDPRPLKDSRFQLLNFSSELKSLVNLNVSISDEGRYFCQLYTDPPOESYTTITVLVPPR 145
 Db 84 FRDPRPLKDSRFQLLNFSSELKSLVNLNVSISDEGRYFCQLYTDPPOESYTTITVLVPPR 143
 Qy 146 NLMDIOKDTAVEGEIEVNTAMASKPATIRFKGNTELKKGSEVEWSDMTVTSQL 205
 Db 144 NLMDIOKDTAVEGEIEVNTAMASKPATIRFKGNTELKKGSEVEWSDMTVTSQL 203
 Qy 206 MLKVHKEDDGPVVCQVEHPAVTGNLQTVLEQYKPVHIQMTYPIQGITREGDALEL 265
 Db 204 MLKVHKEDDGPVVCQVEHPAVTGNLQTVLEQYKPVHIQMTYPIQGITREGDALEL 263
 Qy 266 TCEAIGKQPQVMVTVVRVDDMPQHAVLSGNLFINLNKTDNGTYRCEASNIVGKAHSD 325
 Db 264 TCEAIGKQPQVMVTVVRVDDMPQHAVLSGNLFINLNKTDNGTYRCEASNIVGKAHSD 323
 Qy 326 YMLVYDPTTIPPTTT 385
 Db 324 YMLVYDPTTIPPTTT 383
 Qy 386 FAMILCLLIIGRYFARKGTGYTFHEAKGADDAADTAIINAEQGQNNSEKKEYFI 442
 Db 384 FAMILCLLIIGRYFARKGTGYTFHEAKGADDAADTAIINAEQGQNNSEKKEYFI 440

RESULT 19

ABU82722

ID ABU82722 standard; protein; 440 AA.

AC ABU82722;

XX 27-JUN-2003 (first entry)

DT Human PRO polypeptide #17.

DE Human; PRO polypeptide; secreted and transmembrane protein; tumour;
 KW chromosome mapping; gene mapping; cytostatic.

XX Homo sapiens.

XX US2003032113-A1.

XX 13-FEB-2003.

XX 20-JUN-2002; 2002US-00176911.

XX

PR 18-SEP-1997; 97US-0059263P.
 PR 18-SEP-1997; 97US-0059266P.
 PR 17-OCT-1997; 97US-0062250P.
 PR 21-OCT-1997; 97US-0063486P.
 PR 24-OCT-1997; 97US-0063120P.
 PR 28-OCT-1997; 97US-0063121P.
 PR 28-OCT-1997; 97US-0063540P.
 PR 28-OCT-1997; 97US-0063541P.
 PR 28-OCT-1997; 97US-0063544P.
 PR 28-OCT-1997; 97US-0063564P.
 PR 29-OCT-1997; 97US-0063734P.
 PR 31-OCT-1997; 97US-0063870P.
 PR 31-OCT-1997; 97US-0064103P.
 PR 13-NOV-1997; 97US-0065311P.
 PR 21-NOV-1997; 97US-0066120P.
 PR 24-NOV-1997; 97US-0066466P.
 PR 24-NOV-1997; 97US-0066772P.
 PR 11-DEC-1997; 97US-0069335P.
 PR 12-DEC-1997; 97US-0069425P.
 PR 17-DEC-1997; 97US-0069870P.
 PR 18-DEC-1997; 97US-0068017P.
 PR 10-MAR-1998; 98US-0077450P.
 PR 11-MAR-1998; 98US-0077632P.
 PR 11-MAR-1998; 98US-0077649P.
 PR 20-MAR-1998; 98US-0078866P.
 PR 20-MAR-1998; 98US-0078939P.
 PR 27-MAR-1998; 98US-0079664P.
 PR 27-MAR-1998; 98US-0079786P.
 PR 31-MAR-1998; 98US-0080107P.
 PR 31-MAR-1998; 98US-0080194P.
 PR 01-APR-1998; 98US-0080327P.
 PR 01-APR-1998; 98US-0080333P.
 PR 08-APR-1998; 98US-0081049P.
 PR 08-APR-1998; 98US-0081070P.
 PR 09-APR-1998; 98US-0081195P.
 PR 15-APR-1998; 98US-0081838P.
 PR 21-APR-1998; 98US-0082568P.
 PR 22-APR-1998; 98US-0082569P.
 PR 22-APR-1998; 98US-0082704P.
 PR 22-APR-1998; 98US-0082797P.
 PR 28-APR-1998; 98US-0083222P.
 PR 29-APR-1998; 98US-0083495P.
 PR 29-APR-1998; 98US-0083496P.
 PR 29-APR-1998; 98US-0083499P.
 PR 29-APR-1998; 98US-0083559P.
 PR 05-MAY-1998; 98US-0084366P.
 PR 06-MAY-1998; 98US-0084414P.
 PR 07-MAY-1998; 98US-0084619P.
 PR 07-MAY-1998; 98US-0084640P.
 PR 07-MAY-1998; 98US-0084643P.
 PR 15-MAY-1998; 98US-0085579P.
 PR 15-MAY-1998; 98US-0085808P.
 PR 15-MAY-1998; 98US-0085822P.
 PR 15-MAY-1998; 98US-0085700P.
 PR 18-MAY-1998; 98US-0086023P.
 PR 22-MAY-1998; 98US-0086392P.
 PR 22-MAY-1998; 98US-0086486P.
 PR 28-MAY-1998; 98US-0087098P.
 PR 28-MAY-1998; 98US-0087208P.
 PR 02-JUN-1998; 98US-0087609P.
 PR 02-JUN-1998; 98US-0087759P.
 PR 04-JUN-1998; 98US-0087827P.
 PR 04-JUN-1998; 98US-0088025P.
 PR 04-JUN-1998; 98US-0088028P.
 PR 04-JUN-1998; 98US-0088029P.
 PR 04-JUN-1998; 98US-0088033P.
 PR 04-JUN-1998; 98US-0088326P.
 PR 05-JUN-1998; 98US-0088167P.
 PR 05-JUN-1998; 98US-0088202P.
 PR 05-JUN-1998; 98US-0088212P.
 PR 05-JUN-1998; 98US-0088217P.
 PR 09-JUN-1998; 98US-0088555P.
 PR 10-JUN-1998; 98US-0088722P.

| | | | |
|--|---|--|---|
| PR 10-JUN-1998; | 98US-0088738P. | PR 15-SEP-1998; | 98US-0100388P. |
| PR 10-JUN-1998; | 98US-0088740P. | PR 16-SEP-1998; | 98US-0100662P. |
| PR 10-JUN-1998; | 98US-0088811P. | PR 16-SEP-1998; | 98US-0100664P. |
| PR 10-JUN-1998; | 98US-0088824P. | PR 16-SEP-1998; | 98US-0101751P. |
| PR 10-JUN-1998; | 98US-0088825P. | PR 16-SEP-1998; | 98US-0101751P. |
| PR 10-JUN-1998; | 98US-0088826P. | PR 17-SEP-1998; | 98US-0100683P. |
| PR 11-JUN-1998; | 98US-0088861P. | PR 17-SEP-1998; | 98US-0100684P. |
| PR 11-JUN-1998; | 98US-0088863P. | PR 17-SEP-1998; | 98US-0100919P. |
| PR 11-JUN-1998; | 98US-0088876P. | PR 17-SEP-1998; | 98US-0100930P. |
| PR 12-JUN-1998; | 98US-0089105P. | PR 18-SEP-1998; | 98US-0100849P. |
| PR 12-JUN-1998; | 98US-0089105P. | PR 18-SEP-1998; | 98US-0101014P. |
| PR 16-JUN-1998; | 98US-0089512P. | PR 18-SEP-1998; | 98US-0101068P. |
| PR 16-JUN-1998; | 98US-0089514P. | PR 23-SEP-1998; | 98US-0101471P. |
| PR 17-JUN-1998; | 98US-0089538P. | PR 23-SEP-1998; | 98US-0101472P. |
| PR 17-JUN-1998; | 98US-0089598P. | PR 23-SEP-1998; | 98US-0101475P. |
| PR 17-JUN-1998; | 98US-0089653P. | PR 23-SEP-1998; | 98US-0101477P. |
| PR 18-JUN-1998; | 98US-0089908P. | PR 24-SEP-1998; | 98US-0101738P. |
| PR 19-JUN-1998; | 98US-0089908P. | PR 24-SEP-1998; | 98US-0101739P. |
| PR 22-JUN-1998; | 98US-0090246P. | PR 24-SEP-1998; | 98US-0101743P. |
| PR 22-JUN-1998; | 98US-0090252P. | PR 24-SEP-1998; | 98US-0101922P. |
| PR 24-JUN-1998; | 98US-0090254P. | PR 25-SEP-1998; | 98US-0101786P. |
| PR 24-JUN-1998; | 98US-0090429P. | PR 25-SEP-1998; | 98US-0101922P. |
| PR 24-JUN-1998; | 98US-0090435P. | PR 25-SEP-1998; | 98US-0102207P. |
| PR 24-JUN-1998; | 98US-0090444P. | PR 29-SEP-1998; | 98US-0102240P. |
| PR 24-JUN-1998; | 98US-0090461P. | PR 29-SEP-1998; | 98US-0102330P. |
| PR 24-JUN-1998; | 98US-0090535P. | PR 29-SEP-1998; | 98US-0102331P. |
| PR 24-JUN-1998; | 98US-0090540P. | PR 30-SEP-1998; | 98US-0102487P. |
| PR 25-JUN-1998; | 98US-0090676P. | PR 30-SEP-1998; | 98US-0102570P. |
| PR 25-JUN-1998; | 98US-0090678P. | PR 30-SEP-1998; | 98US-0102571P. |
| PR 25-JUN-1998; | 98US-0090688P. | PR 01-OCT-1998; | 98US-0102884P. |
| PR 25-JUN-1998; | 98US-0090690P. | PR 01-OCT-1998; | 98US-0102887P. |
| PR 25-JUN-1998; | 98US-0090694P. | PR 02-OCT-1998; | 98US-0102965P. |
| PR 25-JUN-1998; | 98US-0090695P. | PR 06-OCT-1998; | 98US-0103258P. |
| PR 25-JUN-1998; | 98US-0090696P. | PR 06-OCT-1998; | 98US-0103449P. |
| PR 26-JUN-1998; | 98US-00105413. | PR 07-OCT-1998; | 98US-00168978. |
| PR 26-JUN-1998; | 98US-0090862P. | PR 07-OCT-1998; | 98US-0103395P. |
| PR 26-JUN-1998; | 98US-0090863P. | | |
| PR 26-JUN-1998; | 98US-0091010P. | | |
| PR 01-JUL-1998; | 98US-0091359P. | | |
| PR 01-JUL-1998; | 98US-0091544P. | | |
| PR 02-JUL-1998; | 98US-0091478P. | | |
| PR 02-JUL-1998; | 98US-0091486P. | | |
| PR 02-JUL-1998; | 98US-0091626P. | | |
| PR 02-JUL-1998; | 98US-0091628P. | | |
| PR 02-JUL-1998; | 98US-0091632P. | | |
| PR 24-JUL-1998; | 98US-0094006P. | | |
| PR 04-AUG-1998; | 98US-0095282P. | | |
| PR 10-AUG-1998; | 98US-0095998P. | | |
| PR 10-AUG-1998; | 98US-0096012P. | | |
| PR 17-AUG-1998; | 98US-0096757P. | | |
| PR 17-AUG-1998; | 98US-0096766P. | | |
| PR 17-AUG-1998; | 98US-0096867P. | | |
| PR 17-AUG-1998; | 98US-0096891P. | | |
| PR 17-AUG-1998; | 98US-0096897P. | | |
| PR 18-AUG-1998; | 98US-0096949P. | | |
| PR 18-AUG-1998; | 98US-0096959P. | | |
| PR 18-AUG-1998; | 98US-0097022P. | | |
| PR 26-AUG-1998; | 98US-0097952P. | | |
| PR 26-AUG-1998; | 98US-0097954P. | | |
| PR 26-AUG-1998; | 98US-0097955P. | | |
| PR 26-AUG-1998; | 98US-0097971P. | | |
| PR 26-AUG-1998; | 98US-0097974P. | | |
| PR 26-AUG-1998; | 98US-0098014P. | | |
| PR 01-SEP-1998; | 98US-0098716P. | | |
| PR 02-SEP-1998; | 98US-0098723P. | | |
| PR 02-SEP-1998; | 98US-0098803P. | | |
| PR 02-SEP-1998; | 98US-0098821P. | | |
| PR 02-SEP-1998; | 98US-0098843P. | | |
| PR 09-SEP-1998; | 98US-0099602P. | | |
| PR 10-SEP-1998; | 98US-0099741P. | | |
| PR 10-SEP-1998; | 98US-0099754P. | | |
| PR 10-SEP-1998; | 98US-0099763P. | | |
| PR 10-SEP-1998; | 98US-0099812P. | | |
| RESULT 20 | | Query Match 94.3%; Score 417; DB 6; Length 440; | |
| ABU89843 | | Best Local Similarity 100.0%; Pred. No. 0; | |
| ID ABU89843 standard; protein; 440 AA. | | Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0; | |
| XX | | | |
| Qy 26 | LRLLLLFSAALIPGTGQNLFTKDVTVIEGVATISQVNSKSDSVIQLLPNRQTIY 85 | Qy 26 | LRLLLLFSAALIPGTGQNLFTKDVTVIEGVATISQVNSKSDSVIQLLPNRQTIY 85 |
| Db 24 | LRLLLLFSAALIPGTGQNLFTKDVTVIEGVATISQVNSKSDSVIQLLPNRQTIY 83 | Db 24 | LRLLLLFSAALIPGTGQNLFTKDVTVIEGVATISQVNSKSDSVIQLLPNRQTIY 83 |
| Qy 86 | FRDPRFKDSRFOLLNFSSELKVSITNVSISDEGRYFCQLYTDPQESVTTITVLVPPR 145 | Qy 86 | FRDPRFKDSRFOLLNFSSELKVSITNVSISDEGRYFCQLYTDPQESVTTITVLVPPR 145 |
| Db 84 | FRDPRFKDSRFOLLNFSSELKVSITNVSISDEGRYFCQLYTDPQESVTTITVLVPPR 143 | Db 84 | FRDPRFKDSRFOLLNFSSELKVSITNVSISDEGRYFCQLYTDPQESVTTITVLVPPR 143 |
| Qy 146 | NLMIDIQKDTAVEGEIEVNCETAMASKPATTIRWFKGNTLKGKSEVEWSDMYTTSOL 205 | Qy 146 | NLMIDIQKDTAVEGEIEVNCETAMASKPATTIRWFKGNTLKGKSEVEWSDMYTTSOL 205 |
| Db 144 | NLMIDIQKDTAVEGEIEVNCETAMASKPATTIRWFKGNTLKGKSEVEWSDMYTTSOL 203 | Db 144 | NLMIDIQKDTAVEGEIEVNCETAMASKPATTIRWFKGNTLKGKSEVEWSDMYTTSOL 203 |
| Qy 206 | MLKVHKEDDGVPICOVEHPAVTGNLQTOBYLEVQKPOVHIQMTYPLQGLTREGDALEL 265 | Qy 206 | MLKVHKEDDGVPICOVEHPAVTGNLQTOBYLEVQKPOVHIQMTYPLQGLTREGDALEL 265 |
| Db 204 | MLKVHKEDDGVPICOVEHPAVTGNLQTOBYLEVQKPOVHIQMTYPLQGLTREGDALEL 263 | Db 204 | MLKVHKEDDGVPICOVEHPAVTGNLQTOBYLEVQKPOVHIQMTYPLQGLTREGDALEL 263 |
| Qy 266 | TCEAIGKPOPMVMTWVRVDEMPQHAVLSGNPLFINNLKNTDNGTYRCEASNIVGKAHSD 325 | Qy 266 | TCEAIGKPOPMVMTWVRVDEMPQHAVLSGNPLFINNLKNTDNGTYRCEASNIVGKAHSD 325 |
| Db 264 | TCEAIGKPOPMVMTWVRVDEMPQHAVLSGNPLFINNLKNTDNGTYRCEASNIVGKAHSD 323 | Db 264 | TCEAIGKPOPMVMTWVRVDEMPQHAVLSGNPLFINNLKNTDNGTYRCEASNIVGKAHSD 323 |
| Qy 326 | YMLVYVDPPTTPPTTTTTTTTTTTTTTTTTTTTTITTSRAGEEGSIRAVDHAVIGGVAVVV 385 | Qy 326 | YMLVYVDPPTTPPTTTTTTTTTTTTTTTTTTTTTITTSRAGEEGSIRAVDHAVIGGVAVVV 385 |
| Db 324 | YMLVYVDPPTTPPTTTTTTTTTTTTTTTTTTTTTITTSRAGEEGSIRAVDHAVIGGVAVVV 383 | Db 324 | YMLVYVDPPTTPPTTTTTTTTTTTTTTTTTTTTTITTSRAGEEGSIRAVDHAVIGGVAVVV 383 |
| Qy 386 | FAMLCIIILGRYFARHKGTYFTHEAKGADDAADATATINAEQQNSEEKKEYFI 442 | Qy 386 | FAMLCIIILGRYFARHKGTYFTHEAKGADDAADATATINAEQQNSEEKKEYFI 442 |
| Db 384 | FAMLCIIILGRYFARHKGTYFTHEAKGADDAADATATINAEQQNSEEKKEYFI 440 | Db 384 | FAMLCIIILGRYFARHKGTYFTHEAKGADDAADATATINAEQQNSEEKKEYFI 440 |

AC ABUS9843;
XX
DT 11-AUG-2003 (first entry)
XX
XX Novel human secreted and transmembrane protein PRO355.
XX
XX Human; gene therapy; tissue typing; tumour; chondrocyte proliferation;
XX chondrocyte differentiation; tumour necrosis factor-alpha release;
XX affinity purification.
XX
XX Homo sapiens.
XX
XX US2003036147-A1.
XX
PD 20-FEB-2003.
XX
XX 02-JUL-2002; 2002US-00187741.
XX
XX 18-SEP-1997; 97US-0059263P.
XX 18-SEP-1997; 97US-0059266P.
XX 17-OCT-1997; 97US-00622250P.
XX 21-OCT-1997; 97US-0063486P.
XX 24-OCT-1997; 97US-00631120P.
XX 24-OCT-1997; 97US-00631121P.
XX 28-OCT-1997; 97US-0063540P.
XX 28-OCT-1997; 97US-0063541P.
XX 28-OCT-1997; 97US-0063544P.
XX 28-OCT-1997; 97US-0063564P.
XX 28-OCT-1997; 97US-0063734P.
XX 31-OCT-1997; 97US-0063870P.
XX 31-OCT-1997; 97US-0064103P.
XX 13-NOV-1997; 97US-0065311P.
XX 21-NOV-1997; 97US-0066120P.
XX 21-NOV-1997; 97US-0066466P.
XX 24-NOV-1997; 97US-0066772P.
XX 11-DEC-1997; 97US-0069335P.
XX 12-DEC-1997; 97US-0069435P.
XX 17-DEC-1997; 97US-0069870P.
XX 18-DEC-1997; 97US-0068017P.
XX 10-MAR-1998; 98US-0074450P.
XX 11-MAR-1998; 98US-0077632P.
XX 11-MAR-1998; 98US-0077649P.
XX 20-MAR-1998; 98US-0078886P.
XX 20-MAR-1998; 98US-0078939P.
XX 27-MAR-1998; 98US-0079664P.
XX 27-MAR-1998; 98US-0079786P.
XX 31-MAR-1998; 98US-0080107P.
XX 31-MAR-1998; 98US-0080194P.
XX 01-APR-1998; 98US-0080327P.
XX 01-APR-1998; 98US-0080333P.
XX 08-APR-1998; 98US-0081049P.
XX 08-APR-1998; 98US-0081070P.
XX 09-APR-1998; 98US-0081195P.
XX 15-APR-1998; 98US-0081838P.
XX 21-APR-1998; 98US-0082568P.
XX 21-APR-1998; 98US-0082569P.
XX 22-APR-1998; 98US-0082704P.
XX 22-APR-1998; 98US-0082797P.
XX 28-APR-1998; 98US-0083322P.
XX 29-APR-1998; 98US-0083495P.
XX 29-APR-1998; 98US-0083496P.
XX 29-APR-1998; 98US-0083499P.
XX 29-APR-1998; 98US-0083559P.
XX 05-MAY-1998; 98US-0084366P.
XX 06-MAY-1998; 98US-0084414P.
XX 07-MAY-1998; 98US-0084639P.
XX 07-MAY-1998; 98US-0084640P.
XX 07-MAY-1998; 98US-0084643P.
XX 15-MAY-1998; 98US-0085579P.
XX 15-MAY-1998; 98US-0085580P.
XX 15-MAY-1998; 98US-0085582P.
XX 15-MAY-1998; 98US-0085700P.
XX 18-MAY-1998; 98US-0086023P.
PR 22-MAY-1998; 98US-0086392P.
PR 22-MAY-1998; 98US-0086486P.
PR 28-MAY-1998; 98US-0087098P.
PR 28-MAY-1998; 98US-0087208P.
PR 02-JUN-1998; 98US-0087609P.
PR 02-JUN-1998; 98US-0087759P.
PR 03-JUN-1998; 98US-0087827P.
PR 04-JUN-1998; 98US-0088025P.
PR 04-JUN-1998; 98US-0088028P.
PR 04-JUN-1998; 98US-0088029P.
PR 04-JUN-1998; 98US-0088033P.
PR 04-JUN-1998; 98US-0088326P.
PR 05-JUN-1998; 98US-0088167P.
PR 05-JUN-1998; 98US-0088202P.
PR 05-JUN-1998; 98US-0088212P.
PR 05-JUN-1998; 98US-0088217P.
PR 05-JUN-1998; 98US-0088655P.
PR 10-JUN-1998; 98US-0088722P.
PR 10-JUN-1998; 98US-0088738P.
PR 10-JUN-1998; 98US-0088740P.
PR 10-JUN-1998; 98US-0088811P.
PR 10-JUN-1998; 98US-0088824P.
PR 10-JUN-1998; 98US-0088825P.
PR 10-JUN-1998; 98US-0088826P.
PR 11-JUN-1998; 98US-0088861P.
PR 11-JUN-1998; 98US-0088863P.
PR 11-JUN-1998; 98US-0088876P.
PR 17-JUN-1998; 98US-0089653P.
PR 17-JUN-1998; 98US-0089658P.
PR 18-JUN-1998; 98US-0089908P.
PR 19-JUN-1998; 98US-0089952P.
PR 22-JUN-1998; 98US-0090246P.
PR 22-JUN-1998; 98US-0090252P.
PR 22-JUN-1998; 98US-0090254P.
PR 24-JUN-1998; 98US-0090429P.
PR 24-JUN-1998; 98US-0090435P.
PR 24-JUN-1998; 98US-0090444P.
PR 24-JUN-1998; 98US-0090461P.
PR 24-JUN-1998; 98US-0090535P.
PR 24-JUN-1998; 98US-0090540P.
PR 25-JUN-1998; 98US-0090676P.
PR 25-JUN-1998; 98US-0090678P.
PR 25-JUN-1998; 98US-0090688P.
PR 25-JUN-1998; 98US-0090890P.
PR 25-JUN-1998; 98US-0090894P.
PR 25-JUN-1998; 98US-0090895P.
PR 25-JUN-1998; 98US-0090896P.
PR 26-JUN-1998; 98US-00105413.
PR 26-JUN-1998; 98US-0090862P.
PR 26-JUN-1998; 98US-0090863P.
PR 26-JUN-1998; 98US-0091010P.
PR 01-JUL-1998; 98US-0091359P.
PR 01-JUL-1998; 98US-0091544P.
PR 02-JUL-1998; 98US-0091478P.
PR 02-JUL-1998; 98US-0091486P.
PR 02-JUL-1998; 98US-0091626P.
PR 02-JUL-1998; 98US-0091628P.
PR 02-JUL-1998; 98US-0091632P.
PR 24-JUL-1998; 98US-0094006P.
PR 04-AUG-1998; 98US-0095282P.
PR 10-AUG-1998; 98US-0095998P.
PR 10-AUG-1998; 98US-0096012P.
PR 17-AUG-1998; 98US-0096757P.
PR 17-AUG-1998; 98US-0096766P.
PR 17-AUG-1998; 98US-0096867P.
PR 17-AUG-1998; 98US-0096891P.
PR 17-AUG-1998; 98US-0096897P.
PR 18-AUG-1998; 98US-0096949P.

| | | | | | | | | | | | |
|--|--------------|-------------------------------------|--------------------|---------------|----------------------------|-----------|-----------|----------------|----------|----------|-----|
| PR | 18-AUG-1998; | 98US-0096959P. | QY | 266 | TCEAIGKQPQPMVTWVRVDEMPQHA | VL | SGPNLFINN | LKNTDNGTYRCEAS | NIVG | RAHSD | 325 |
| PR | 18-AUG-1998; | 98US-0097022P. | Db | 264 | TCEAIGKQPQPMVTWVRVDEMPQHA | VL | SGPNLFINN | LKNTDNGTYRCEAS | NIVG | RAHSD | 323 |
| PR | 26-AUG-1998; | 98US-0097952P. | | | | | | | | | |
| PR | 26-AUG-1998; | 98US-0097954P. | | | | | | | | | |
| PR | 26-AUG-1998; | 98US-0097955P. | QY | 326 | YMLYVYDPPPTTIPPPPTTTTTTTTT | TT | TTTTTTTT | TTTTTTTT | TTTTTTTT | TTTTTTTT | 385 |
| PR | 26-AUG-1998; | 98US-0097971P. | Db | 324 | YMLYVYDPPPTTIPPPPTTTTTTTTT | TT | TTTTTTTT | TTTTTTTT | TTTTTTTT | TTTTTTTT | 383 |
| PR | 26-AUG-1998; | 98US-0097974P. | | | | | | | | | |
| PR | 26-AUG-1998; | 98US-0098014P. | | | | | | | | | |
| PR | 01-SEP-1998; | 98US-0098716P. | QY | 386 | FAMLCCLLIILGRYPARHKGTYFT | HEAKGADDA | ADADTA | INAE | GGQNNSEK | EYFI | 442 |
| PR | 01-SEP-1998; | 98US-0098723P. | Db | 384 | FAMLCCLLIILGRYPARHKGTYFT | HEAKGADDA | ADADTA | INAE | GGQNNSEK | EYFI | 440 |
| PR | 02-SEP-1998; | 98US-0098803P. | | | | | | | | | |
| PR | 02-SEP-1998; | 98US-0098821P. | | | | | | | | | |
| PR | 02-SEP-1998; | 98US-0098843P. | | | | | | | | | |
| PR | 09-SEP-1998; | 98US-0099602P. | | | | | | | | | |
| PR | 10-SEP-1998; | 98US-0099741P. | | | | | | | | | |
| PR | 10-SEP-1998; | 98US-0099754P. | | | | | | | | | |
| PR | 10-SEP-1998; | 98US-0099763P. | | | | | | | | | |
| PR | 10-SEP-1998; | 98US-0099812P. | | | | | | | | | |
| PR | 15-SEP-1998; | 98US-0100388P. | | | | | | | | | |
| PR | 16-SEP-1998; | 98US-0100662P. | | | | | | | | | |
| PR | 16-SEP-1998; | 98US-0100664P. | | | | | | | | | |
| PR | 16-SEP-1998; | 98US-0101751P. | | | | | | | | | |
| PR | 16-SEP-1998; | 98US-0101933P. | | | | | | | | | |
| PR | 17-SEP-1998; | 98US-0100683P. | | | | | | | | | |
| PR | 17-SEP-1998; | 98US-0100684P. | | | | | | | | | |
| PR | 17-SEP-1998; | 98US-0100919P. | | | | | | | | | |
| PR | 17-SEP-1998; | 98US-0100930P. | | | | | | | | | |
| PR | 18-SEP-1998; | 98US-0100849P. | | | | | | | | | |
| PR | 18-SEP-1998; | 98US-0101014P. | | | | | | | | | |
| PR | 18-SEP-1998; | 98US-0101068P. | | | | | | | | | |
| PR | 23-SEP-1998; | 98US-0101471P. | | | | | | | | | |
| PR | 23-SEP-1998; | 98US-0101472P. | | | | | | | | | |
| PR | 23-SEP-1998; | 98US-0101475P. | | | | | | | | | |
| PR | 23-SEP-1998; | 98US-0101477P. | | | | | | | | | |
| PR | 24-SEP-1998; | 98US-0101738P. | | | | | | | | | |
| PR | 24-SEP-1998; | 98US-0101739P. | | | | | | | | | |
| PR | 24-SEP-1998; | 98US-0101743P. | | | | | | | | | |
| PR | 24-SEP-1998; | 98US-0101922P. | | | | | | | | | |
| PR | 25-SEP-1998; | 98US-0101786P. | | | | | | | | | |
| PR | 25-SEP-1998; | 98US-0102207P. | | | | | | | | | |
| PR | 28-SEP-1998; | 98US-0102240P. | | | | | | | | | |
| PR | 29-SEP-1998; | 98US-0102330P. | | | | | | | | | |
| PR | 29-SEP-1998; | 98US-0102331P. | | | | | | | | | |
| PR | 30-SEP-1998; | 98US-0102487P. | | | | | | | | | |
| PR | 30-SEP-1998; | 98US-0102570P. | | | | | | | | | |
| PR | 30-SEP-1998; | 98US-0102571P. | | | | | | | | | |
| PR | 01-OCT-1998; | 98US-0102684P. | | | | | | | | | |
| PR | 01-OCT-1998; | 98US-0102687P. | | | | | | | | | |
| PR | 02-OCT-1998; | 98US-0102965P. | | | | | | | | | |
| PR | 06-OCT-1998; | 98US-0103258P. | | | | | | | | | |
| PR | 06-OCT-1998; | 98US-0103449P. | | | | | | | | | |
| PR | 07-OCT-1998; | 98US-00168978. | | | | | | | | | |
| Query Match 94.3%; Score 417; DB 6; Length 440; | | | | | | | | | | | |
| Best Local Similarity 100.0%; Pred. No. 0; | | | | | | | | | | | |
| Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0; | | | | | | | | | | | |
| QY | 26 | LRLLLLFSAAALPTGDGNLFTKQVTVIEGEVATIS | COVKNKSDSDSVIQLLNP | RTIY | 85 | | | | | | |
| Db | 24 | LRLLLLFSAAALPTGDGNLFTKQVTVIEGEVATIS | COVKNKSDSDSVIQLLNP | RTIY | 83 | | | | | | |
| QY | 86 | FRDPRPLKDSRFQLLNFSSSELKSVSLTNVSI | SDGGRYFCQLYTDP | PPQESYTTITVLV | PPR | 145 | | | | | |
| Db | 84 | FRDPRPLKDSRFQLLNFSSSELKSVSLTNVSI | SDGGRYFCQLYTDP | PPQESYTTITVLV | PPR | 143 | | | | | |
| QY | 146 | NLMIDIQKDTAVEGEIEEIVNCTAMASKPATTIR | FWKGNTELKKGSEVEEWS | DMYTVTSQ | L | 205 | | | | | |
| Db | 144 | NLMIDIQKDTAVEGEIEEIVNCTAMASKPATTIR | FWKGNTELKKGSEVEEWS | DMYTVTSQ | L | 203 | | | | | |
| QY | 206 | MLKVHKEDDGPVTCQVEHPAVTGNLQTVRYLVQYK | POVHIQMTYPLQGLTREG | DAL | E | 265 | | | | | |
| Db | 204 | MLKVHKEDDGPVTCQVEHPAVTGNLQTVRYLVQYK | POVHIQMTYPLQGLTREG | DAL | E | 263 | | | | | |

PR 09-APR-1998; 98US-0081195P.
PR 15-APR-1998; 98US-0081838P.
PR 21-APR-1998; 98US-0082588P.
PR 21-APR-1998; 98US-0082589P.
PR 22-APR-1998; 98US-0082704P.
PR 22-APR-1998; 98US-0082797P.
PR 22-APR-1998; 98US-0083322P.
PR 22-APR-1998; 98US-0083495P.
PR 29-APR-1998; 98US-0083496P.
PR 29-APR-1998; 98US-0083499P.
PR 29-APR-1998; 98US-0083559P.
PR 05-MAY-1998; 98US-0084366P.
PR 06-MAY-1998; 98US-0084414P.
PR 07-MAY-1998; 98US-0084639P.
PR 07-MAY-1998; 98US-0084640P.
PR 07-MAY-1998; 98US-0084643P.
PR 15-MAY-1998; 98US-0085579P.
PR 15-MAY-1998; 98US-0085580P.
PR 15-MAY-1998; 98US-0085582P.
PR 15-MAY-1998; 98US-0085700P.
PR 18-MAY-1998; 98US-0086023P.
PR 22-MAY-1998; 98US-0086392P.
PR 22-MAY-1998; 98US-0086486P.
PR 28-MAY-1998; 98US-0087098P.
PR 28-MAY-1998; 98US-0087208P.
PR 02-JUN-1998; 98US-0087609P.
PR 02-JUN-1998; 98US-0087759P.
PR 03-JUN-1998; 98US-0087827P.
PR 04-JUN-1998; 98US-0088025P.
PR 04-JUN-1998; 98US-0088028P.
PR 04-JUN-1998; 98US-0088029P.
PR 04-JUN-1998; 98US-0088033P.
PR 04-JUN-1998; 98US-0088126P.
PR 05-JUN-1998; 98US-0088167P.
PR 05-JUN-1998; 98US-0088202P.
PR 05-JUN-1998; 98US-0088212P.
PR 05-JUN-1998; 98US-0088217P.
PR 09-JUN-1998; 98US-0088655P.
PR 10-JUN-1998; 98US-0088722P.
PR 10-JUN-1998; 98US-0088738P.
PR 10-JUN-1998; 98US-0088740P.
PR 10-JUN-1998; 98US-0088811P.
PR 10-JUN-1998; 98US-0088824P.
PR 10-JUN-1998; 98US-0088825P.
PR 10-JUN-1998; 98US-0088826P.
PR 11-JUN-1998; 98US-0088861P.
PR 11-JUN-1998; 98US-0088863P.
PR 11-JUN-1998; 98US-0088876P.
PR 12-JUN-1998; 98US-0089090P.
PR 12-JUN-1998; 98US-0089105P.
PR 16-JUN-1998; 98US-0089512P.
PR 16-JUN-1998; 98US-0089514P.
PR 17-JUN-1998; 98US-0089538P.
PR 17-JUN-1998; 98US-0089598P.
PR 17-JUN-1998; 98US-0089633P.
PR 18-JUN-1998; 98US-0089908P.
PR 19-JUN-1998; 98US-0089952P.
PR 22-JUN-1998; 98US-0090246P.
PR 22-JUN-1998; 98US-0090252P.
PR 22-JUN-1998; 98US-0090254P.
PR 24-JUN-1998; 98US-0090429P.
PR 24-JUN-1998; 98US-0090435P.
PR 24-JUN-1998; 98US-0090444P.
PR 24-JUN-1998; 98US-0090461P.
PR 24-JUN-1998; 98US-0090535P.
PR 24-JUN-1998; 98US-0090540P.
PR 25-JUN-1998; 98US-0090676P.
PR 25-JUN-1998; 98US-0090678P.
PR 25-JUN-1998; 98US-0090688P.
PR 25-JUN-1998; 98US-0090690P.
PR 25-JUN-1998; 98US-0090694P.
PR 25-JUN-1998; 98US-0090695P.
PR 25-JUN-1998; 98US-0090696P.

PR 26-JUN-1998; 98US-00105413.
PR 26-JUN-1998; 98US-0090862P.
PR 26-JUN-1998; 98US-0090863P.
PR 26-JUN-1998; 98US-0091010P.
PR 01-JUL-1998; 98US-0091359P.
PR 01-JUL-1998; 98US-0091544P.
PR 02-JUL-1998; 98US-0091478P.
PR 02-JUL-1998; 98US-0091486P.
PR 02-JUL-1998; 98US-0091626P.
PR 02-JUL-1998; 98US-0091628P.
PR 02-JUL-1998; 98US-0091632P.
PR 24-JUL-1998; 98US-0094006P.
PR 04-AUG-1998; 98US-0095282P.
PR 10-AUG-1998; 98US-0095598P.
PR 10-AUG-1998; 98US-0096012P.
PR 17-AUG-1998; 98US-0096757P.
PR 17-AUG-1998; 98US-0096766P.
PR 17-AUG-1998; 98US-0096867P.
PR 17-AUG-1998; 98US-0096891P.
PR 17-AUG-1998; 98US-0096897P.
PR 18-AUG-1998; 98US-0096949P.
PR 18-AUG-1998; 98US-0096959P.
PR 18-AUG-1998; 98US-0097022P.
PR 26-AUG-1998; 98US-0097952P.
PR 26-AUG-1998; 98US-0097954P.
PR 26-AUG-1998; 98US-0097955P.
PR 26-AUG-1998; 98US-0097971P.
PR 26-AUG-1998; 98US-0097974P.
PR 26-AUG-1998; 98US-0098014P.
PR 01-SEP-1998; 98US-0098716P.
PR 01-SEP-1998; 98US-0098723P.
PR 02-SEP-1998; 98US-0098803P.
PR 02-SEP-1998; 98US-0098821P.
PR 02-SEP-1998; 98US-0098843P.
PR 09-SEP-1998; 98US-0099602P.
PR 10-SEP-1998; 98US-0099741P.
PR 10-SEP-1998; 98US-0099754P.
PR 10-SEP-1998; 98US-0099763P.
PR 10-SEP-1998; 98US-0099812P.
PR 15-SEP-1998; 98US-0100388P.
PR 16-SEP-1998; 98US-0100662P.
PR 16-SEP-1998; 98US-0100664P.
PR 16-SEP-1998; 98US-0101751P.
PR 16-SEP-1998; 98WO-US019330.
PR 17-SEP-1998; 98US-0100683P.
PR 17-SEP-1998; 98US-0100684P.
PR 17-SEP-1998; 98US-0100919P.
PR 17-SEP-1998; 98US-0100930P.
PR 18-SEP-1998; 98US-0100849P.
PR 18-SEP-1998; 98US-0101014P.
PR 18-SEP-1998; 98US-0101068P.
PR 23-SEP-1998; 98US-0101471P.
PR 23-SEP-1998; 98US-0101472P.
PR 23-SEP-1998; 98US-0101475P.
PR 23-SEP-1998; 98US-0101477P.
PR 23-SEP-1998; 98US-0101738P.
PR 24-SEP-1998; 98US-0101739P.
PR 24-SEP-1998; 98US-0101743P.
PR 24-SEP-1998; 98US-0101922P.
PR 25-SEP-1998; 98US-0101786P.
PR 25-SEP-1998; 98US-010207P.
PR 25-SEP-1998; 98US-0102240P.
PR 29-SEP-1998; 98US-0102330P.
PR 29-SEP-1998; 98US-0102331P.
PR 30-SEP-1998; 98US-0102487P.
PR 30-SEP-1998; 98US-0102570P.
PR 30-SEP-1998; 98US-0102571P.
PR 01-OCT-1998; 98US-0102684P.
PR 01-OCT-1998; 98US-0102687P.

Query Match 94.3%; Score 417; DB 6; Length 440;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0;


```
PR 22-JUN-1998; 98US-0090254P.
PR 24-JUN-1998; 98US-0090432P.
PR 24-JUN-1998; 98US-0090443P.
PR 24-JUN-1998; 98US-0090444P.
PR 24-JUN-1998; 98US-0090461P.
PR 24-JUN-1998; 98US-0090535P.
PR 24-JUN-1998; 98US-0090540P.
PR 25-JUN-1998; 98US-0090676P.
PR 25-JUN-1998; 98US-0090678P.
PR 25-JUN-1998; 98US-0090688P.
PR 25-JUN-1998; 98US-0090690P.
PR 25-JUN-1998; 98US-0090694P.
PR 25-JUN-1998; 98US-0090695P.
PR 25-JUN-1998; 98US-0090696P.
PR 26-JUN-1998; 98US-00105413.
PR 26-JUN-1998; 98US-0090862P.
PR 26-JUN-1998; 98US-0090863P.
PR 26-JUN-1998; 98US-0091010P.
PR 01-JUL-1998; 98US-0091359P.
PR 02-JUL-1998; 98US-0091544P.
PR 02-JUL-1998; 98US-0091478P.
PR 02-JUL-1998; 98US-0091486P.
PR 02-JUL-1998; 98US-0091626P.
PR 02-JUL-1998; 98US-0091628P.
PR 02-JUL-1998; 98US-0091632P.
PR 02-JUL-1998; 98US-0094006P.
PR 04-AUG-1998; 98US-0095282P.
PR 10-AUG-1998; 98US-0095998P.
PR 10-AUG-1998; 98US-0096012P.
PR 17-AUG-1998; 98US-0096757P.
PR 17-AUG-1998; 98US-0096766P.
PR 17-AUG-1998; 98US-0096867P.
PR 17-AUG-1998; 98US-0096891P.
PR 17-AUG-1998; 98US-0096897P.
PR 18-AUG-1998; 98US-0096949P.
PR 18-AUG-1998; 98US-0096959P.
PR 18-AUG-1998; 98US-0097022P.
PR 26-AUG-1998; 98US-0097952P.
PR 26-AUG-1998; 98US-0097954P.
PR 26-AUG-1998; 98US-0097955P.
PR 26-AUG-1998; 98US-0097971P.
PR 26-AUG-1998; 98US-0097974P.
PR 01-SEP-1998; 98US-0098014P.
PR 01-SEP-1998; 98US-0098716P.
PR 02-SEP-1998; 98US-0098723P.
PR 02-SEP-1998; 98US-0098803P.
PR 02-SEP-1998; 98US-0098821P.
PR 02-SEP-1998; 98US-0098843P.
PR 09-SEP-1998; 98US-0099602P.
PR 10-SEP-1998; 98US-0099741P.
PR 10-SEP-1998; 98US-0099754P.
PR 10-SEP-1998; 98US-0099763P.
PR 10-SEP-1998; 98US-0099812P.
PR 15-SEP-1998; 98US-0100388P.
PR 16-SEP-1998; 98US-0100622P.
PR 16-SEP-1998; 98US-0100664P.
PR 16-SEP-1998; 98US-0101751P.
PR 16-SEP-1998; 98US-01019330.
PR 17-SEP-1998; 98US-0100683P.
PR 17-SEP-1998; 98US-0100684P.
PR 17-SEP-1998; 98US-0100919P.
PR 17-SEP-1998; 98US-0100930P.
PR 18-SEP-1998; 98US-0100849P.
PR 18-SEP-1998; 98US-0101014P.
PR 18-SEP-1998; 98US-0101068P.
PR 23-SEP-1998; 98US-0101471P.
PR 23-SEP-1998; 98US-0101472P.
PR 23-SEP-1998; 98US-0101475P.
PR 23-SEP-1998; 98US-0101477P.
PR 24-SEP-1998; 98US-0101738P.
PR 24-SEP-1998; 98US-0101739P.
PR 24-SEP-1998; 98US-0101739P.
PR 24-SEP-1998; 98US-0101743P.
PR 24-SEP-1998; 98US-0101922P.

PR 25-SEP-1998; 98US-0101786P.
PR 29-SEP-1998; 98US-0102207P.
PR 29-SEP-1998; 98US-0102240P.
PR 29-SEP-1998; 98US-0102330P.
PR 29-SEP-1998; 98US-0102331P.
PR 30-SEP-1998; 98US-0102487P.
PR 30-SEP-1998; 98US-0102570P.
PR 30-SEP-1998; 98US-0102571P.
PR 01-OCT-1998; 98US-0102684P.
PR 01-OCT-1998; 98US-0102687P.
PR 02-OCT-1998; 98US-0102965P.
PR 06-OCT-1998; 98US-0103258P.
PR 06-OCT-1998; 98US-0103449P.

Query Match 94.3%; Score 417; DB 6; Length 440;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 26 LRLILLFSAAALPTGCGNLFTKDVTVIEGEVATISCVNKSDDSVIQLLNPNRTIY 85
DB 24 LRLILLFSAAALPTGCGNLFTKDVTVIEGEVATISCVNKSDDSVIQLLNPNRTIY 83
QY 86 FRDPRPLKDSRFOLLNFSSELKVSLSNVISDEGRYFCOLYTPDPPQESYTTITVLVPPR 145
DB 84 FRDPRPLKDSRFOLLNFSSELKVSLSNVISDEGRYFCOLYTPDPPQESYTTITVLVPPR 143
QY 146 NLMIDIQKDTAVEGEEIEVNCTAMASKPATTIRWFKGNTLKGKSEVEESDMYTVTSQ 205
DB 144 NLMIDIQKDTAVEGEEIEVNCTAMASKPATTIRWFKGNTLKGKSEVEESDMYTVTSQ 203
QY 206 MLKVHKEDDGPVVCQVEHPAVTGNLTQRYLEYQYKPVQHIQMTYPLQGLTREGDALEL 265
DB 204 MLKVHKEDDGPVVCQVEHPAVTGNLTQRYLEYQYKPVQHIQMTYPLQGLTREGDALEL 263
QY 266 TCEAIGKQPQVMVTVWRVDDMPQHAVLSGPNLFINNLTNDNGTYRCEASNIVGKAHSD 325
DB 264 TCEAIGKQPQVMVTVWRVDDMPQHAVLSGPNLFINNLTNDNGTYRCEASNIVGKAHSD 323
QY 326 YMLVYDPPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 385
DB 324 YMLVYDPPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 383
QY 386 FAMLCLLIILGRYPARHKGTFTHEAKGADDAADATTAIINAEQQNNSEKKEYFI 442
DB 384 FAMLCLLIILGRYPARHKGTFTHEAKGADDAADATTAIINAEQQNNSEKKEYFI 440

RESULT 23
ABU92576
ID ABU92576 standard; protein; 440 AA.
XX
AC ABU92576;
XX
DT 18-JUL-2003 (first entry)
XX
DE Human secreted/transmembrane protein (PRO) #17.
XX
KW Human; secreted protein; transmembrane protein; PRO; tumour;
KW proliferation; differentiation; chondrocyte cell; TNF-alpha;
KW tumour necrosis factor-alpha; gene therapy.
XX
OS Homo sapiens.
XX
PN US2003036149-A1.
XX
PD 20-FEB-2003.
XX
PF 02-JUL-2002; 2002US-00187746.
XX
PR 18-SEP-1997; 97US-0059263P.
PR 18-SEP-1997; 97US-0059266P.
PR 17-OCT-1997; 97US-0062250P.
PR 21-OCT-1997; 97US-0063486P.
```

PR 24-OCT-1997; 97US-00631120P.
PR 24-OCT-1997; 97US-00631121P.
PR 28-OCT-1997; 97US-0063540P.
PR 28-OCT-1997; 97US-0063541P.
PR 28-OCT-1997; 97US-0063544P.
PR 28-OCT-1997; 97US-0063564P.
PR 29-OCT-1997; 97US-0063734P.
PR 31-OCT-1997; 97US-0063870P.
PR 31-OCT-1997; 97US-0064103P.
PR 13-NOV-1997; 97US-0065311P.
PR 21-NOV-1997; 97US-00661120P.
PR 24-NOV-1997; 97US-0066466P.
PR 24-NOV-1997; 97US-0066772P.
PR 11-DEC-1997; 97US-0069335P.
PR 12-DEC-1997; 97US-0069425P.
PR 17-DEC-1997; 97US-0069870P.
PR 18-DEC-1997; 97US-0068017P.
PR 10-MAR-1998; 98US-0077450P.
PR 11-MAR-1998; 98US-0077632P.
PR 11-MAR-1998; 98US-0077649P.
PR 20-MAR-1998; 98US-0078886P.
PR 20-MAR-1998; 98US-0078939P.
PR 27-MAR-1998; 98US-0079664P.
PR 27-MAR-1998; 98US-0079786P.
PR 31-MAR-1998; 98US-0080107P.
PR 31-MAR-1998; 98US-0080194P.
PR 01-APR-1998; 98US-0080327P.
PR 01-APR-1998; 98US-0080333P.
PR 08-APR-1998; 98US-0081049P.
PR 08-APR-1998; 98US-0081070P.
PR 09-APR-1998; 98US-0081195P.
PR 15-APR-1998; 98US-0081838P.
PR 21-APR-1998; 98US-0082568P.
PR 21-APR-1998; 98US-0082569P.
PR 22-APR-1998; 98US-0082704P.
PR 22-APR-1998; 98US-0082797P.
PR 28-APR-1998; 98US-0083322P.
PR 29-APR-1998; 98US-0083495P.
PR 29-APR-1998; 98US-0083496P.
PR 29-APR-1998; 98US-0083499P.
PR 29-APR-1998; 98US-0083559P.
PR 05-MAY-1998; 98US-0084366P.
PR 06-MAY-1998; 98US-0084414P.
PR 07-MAY-1998; 98US-0084639P.
PR 07-MAY-1998; 98US-0084640P.
PR 07-MAY-1998; 98US-0084643P.
PR 15-MAY-1998; 98US-0085579P.
PR 15-MAY-1998; 98US-0085580P.
PR 15-MAY-1998; 98US-0085582P.
PR 15-MAY-1998; 98US-0085700P.
PR 18-MAY-1998; 98US-0086023P.
PR 22-MAY-1998; 98US-0086332P.
PR 22-MAY-1998; 98US-0086486P.
PR 28-MAY-1998; 98US-0087098P.
PR 28-MAY-1998; 98US-0087208P.
PR 02-JUN-1998; 98US-0087609P.
PR 02-JUN-1998; 98US-0087759P.
PR 03-JUN-1998; 98US-0087827P.
PR 04-JUN-1998; 98US-0088025P.
PR 04-JUN-1998; 98US-0088028P.
PR 04-JUN-1998; 98US-0088029P.
PR 04-JUN-1998; 98US-0088033P.
PR 04-JUN-1998; 98US-0088326P.
PR 05-JUN-1998; 98US-0088167P.
PR 05-JUN-1998; 98US-0088202P.
PR 05-JUN-1998; 98US-0088212P.
PR 05-JUN-1998; 98US-0088217P.
PR 09-JUN-1998; 98US-0088655P.
PR 10-JUN-1998; 98US-0088722P.
PR 10-JUN-1998; 98US-0088738P.
PR 10-JUN-1998; 98US-0088740P.
PR 10-JUN-1998; 98US-0088811P.
PR 10-JUN-1998; 98US-0088824P.
PR 10-OCT-1997; 97US-00631120P.
PR 10-JUN-1998; 98US-0088825P.
PR 10-JUN-1998; 98US-0088826P.
PR 11-JUN-1998; 98US-0088861P.
PR 11-JUN-1998; 98US-0088863P.
PR 11-JUN-1998; 98US-0088876P.
PR 12-JUN-1998; 98US-0089090P.
PR 12-JUN-1998; 98US-0089105P.
PR 16-JUN-1998; 98US-0089512P.
PR 16-JUN-1998; 98US-0089514P.
PR 17-JUN-1998; 98US-0089538P.
PR 17-JUN-1998; 98US-0089598P.
PR 17-JUN-1998; 98US-0089653P.
PR 18-JUN-1998; 98US-0089908P.
PR 19-JUN-1998; 98US-0089952P.
PR 22-JUN-1998; 98US-0090246P.
PR 22-JUN-1998; 98US-0090252P.
PR 22-JUN-1998; 98US-0090254P.
PR 24-JUN-1998; 98US-0090429P.
PR 24-JUN-1998; 98US-0090435P.
PR 24-JUN-1998; 98US-0090444P.
PR 24-JUN-1998; 98US-0090461P.
PR 24-JUN-1998; 98US-0090535P.
PR 24-JUN-1998; 98US-0090540P.
PR 25-JUN-1998; 98US-0090678P.
PR 25-JUN-1998; 98US-0090678P.
PR 25-JUN-1998; 98US-0090688P.
PR 25-JUN-1998; 98US-0090690P.
PR 25-JUN-1998; 98US-0090694P.
PR 25-JUN-1998; 98US-0090695P.
PR 25-JUN-1998; 98US-0090696P.
PR 26-JUN-1998; 98US-00105413.
PR 26-JUN-1998; 98US-0090862P.
PR 26-JUN-1998; 98US-0090863P.
PR 26-JUN-1998; 98US-0091010P.
PR 01-JUL-1998; 98US-0091359P.
PR 01-JUL-1998; 98US-0091544P.
PR 02-JUL-1998; 98US-0091478P.
PR 02-JUL-1998; 98US-0091486P.
PR 02-JUL-1998; 98US-0091626P.
PR 02-JUL-1998; 98US-0091628P.
PR 02-JUL-1998; 98US-0091632P.
PR 24-JUL-1998; 98US-0094006P.
PR 04-AUG-1998; 98US-0095282P.
PR 10-AUG-1998; 98US-0095998P.
PR 10-AUG-1998; 98US-0096012P.
PR 17-AUG-1998; 98US-0096757P.
PR 17-AUG-1998; 98US-0096766P.
PR 17-AUG-1998; 98US-0096867P.
PR 17-AUG-1998; 98US-0096891P.
PR 17-AUG-1998; 98US-0096897P.
PR 18-AUG-1998; 98US-0096949P.
PR 18-AUG-1998; 98US-0096959P.
PR 18-AUG-1998; 98US-0097022P.
PR 26-AUG-1998; 98US-0097952P.
PR 26-AUG-1998; 98US-0097954P.
PR 26-AUG-1998; 98US-0097955P.
PR 26-AUG-1998; 98US-0097971P.
PR 26-AUG-1998; 98US-0097974P.
PR 26-AUG-1998; 98US-0098014P.
PR 01-SEP-1998; 98US-0098716P.
PR 02-SEP-1998; 98US-0098803P.
PR 02-SEP-1998; 98US-0098821P.
PR 02-SEP-1998; 98US-0098843P.
PR 09-SEP-1998; 98US-0099602P.
PR 10-SEP-1998; 98US-0099741P.
PR 10-SEP-1998; 98US-0099754P.
PR 10-SEP-1998; 98US-0099763P.
PR 10-SEP-1998; 98US-0099812P.
PR 15-SEP-1998; 98US-0100388P.
PR 16-SEP-1998; 98US-0100662P.
PR 16-SEP-1998; 98US-0100664P.
PR 16-SEP-1998; 98US-0101751P.

| | | | | | |
|----|--------------|----------------|--|--------------|--|
| PR | 02-JUN-1998; | 98US-0087609P. | PR | 26-AUG-1998; | 98US-0097955P. |
| PR | 02-JUN-1998; | 98US-0087759P. | PR | 26-AUG-1998; | 98US-0097971P. |
| PR | 03-JUN-1998; | 98US-0087827P. | PR | 26-AUG-1998; | 98US-0097974P. |
| PR | 04-JUN-1998; | 98US-0088025P. | PR | 26-AUG-1998; | 98US-0098014P. |
| PR | 04-JUN-1998; | 98US-0088028P. | PR | 01-SEP-1998; | 98US-0098716P. |
| PR | 04-JUN-1998; | 98US-0088029P. | PR | 01-SEP-1998; | 98US-0098723P. |
| PR | 04-JUN-1998; | 98US-0088033P. | PR | 02-SEP-1998; | 98US-0098803P. |
| PR | 04-JUN-1998; | 98US-0088326P. | PR | 02-SEP-1998; | 98US-0098821P. |
| PR | 05-JUN-1998; | 98US-0088167P. | PR | 02-SEP-1998; | 98US-0098843P. |
| PR | 05-JUN-1998; | 98US-0088202P. | PR | 03-SEP-1998; | 98US-0098602P. |
| PR | 05-JUN-1998; | 98US-0088212P. | PR | 10-SEP-1998; | 98US-0099741P. |
| PR | 05-JUN-1998; | 98US-0088217P. | PR | 10-SEP-1998; | 98US-0099754P. |
| PR | 05-JUN-1998; | 98US-0088655P. | PR | 10-SEP-1998; | 98US-0099763P. |
| PR | 10-JUN-1998; | 98US-0088722P. | PR | 10-SEP-1998; | 98US-0099812P. |
| PR | 10-JUN-1998; | 98US-0088738P. | PR | 15-SEP-1998; | 98US-0100388P. |
| PR | 10-JUN-1998; | 98US-0088740P. | PR | 16-SEP-1998; | 98US-0100662P. |
| PR | 10-JUN-1998; | 98US-0088811P. | PR | 16-SEP-1998; | 98US-0100664P. |
| PR | 10-JUN-1998; | 98US-0088824P. | PR | 16-SEP-1998; | 98US-0101751P. |
| PR | 10-JUN-1998; | 98US-0088825P. | PR | 16-SEP-1998; | 98US-0101751P. |
| PR | 10-JUN-1998; | 98US-0088826P. | PR | 17-SEP-1998; | 98US-0100683P. |
| PR | 11-JUN-1998; | 98US-0088861P. | PR | 17-SEP-1998; | 98US-0100684P. |
| PR | 11-JUN-1998; | 98US-0088863P. | PR | 17-SEP-1998; | 98US-0100919P. |
| PR | 11-JUN-1998; | 98US-0088866P. | PR | 17-SEP-1998; | 98US-0100930P. |
| PR | 12-JUN-1998; | 98US-0089030P. | PR | 18-SEP-1998; | 98US-0100849P. |
| PR | 12-JUN-1998; | 98US-0089105P. | PR | 18-SEP-1998; | 98US-0101014P. |
| PR | 16-JUN-1998; | 98US-0089512P. | PR | 18-SEP-1998; | 98US-0101068P. |
| PR | 16-JUN-1998; | 98US-0089514P. | PR | 23-SEP-1998; | 98US-0101471P. |
| PR | 17-JUN-1998; | 98US-0089538P. | PR | 23-SEP-1998; | 98US-0101472P. |
| PR | 17-JUN-1998; | 98US-0089598P. | PR | 23-SEP-1998; | 98US-0101475P. |
| PR | 17-JUN-1998; | 98US-0089653P. | PR | 23-SEP-1998; | 98US-0101477P. |
| PR | 18-JUN-1998; | 98US-0089908P. | PR | 24-SEP-1998; | 98US-0101738P. |
| PR | 19-JUN-1998; | 98US-0089952P. | PR | 24-SEP-1998; | 98US-0101739P. |
| PR | 22-JUN-1998; | 98US-0090246P. | PR | 24-SEP-1998; | 98US-0101743P. |
| PR | 22-JUN-1998; | 98US-0090252P. | PR | 24-SEP-1998; | 98US-0101922P. |
| PR | 22-JUN-1998; | 98US-0090254P. | PR | 25-SEP-1998; | 98US-0101786P. |
| PR | 24-JUN-1998; | 98US-0090435P. | PR | 25-SEP-1998; | 98US-0102207P. |
| PR | 24-JUN-1998; | 98US-0090444P. | PR | 29-SEP-1998; | 98US-0102240P. |
| PR | 24-JUN-1998; | 98US-0090461P. | PR | 29-SEP-1998; | 98US-0102330P. |
| PR | 24-JUN-1998; | 98US-0090535P. | PR | 29-SEP-1998; | 98US-0102331P. |
| PR | 24-JUN-1998; | 98US-0090540P. | PR | 30-SEP-1998; | 98US-0102487P. |
| PR | 24-JUN-1998; | 98US-0090540P. | PR | 30-SEP-1998; | 98US-0102570P. |
| PR | 25-JUN-1998; | 98US-0090676P. | PR | 30-SEP-1998; | 98US-0102571P. |
| PR | 25-JUN-1998; | 98US-0090678P. | PR | 01-OCT-1998; | 98US-0102684P. |
| PR | 25-JUN-1998; | 98US-0090688P. | PR | 01-OCT-1998; | 98US-0102687P. |
| PR | 25-JUN-1998; | 98US-0090690P. | PR | 02-OCT-1998; | 98US-0102965P. |
| PR | 25-JUN-1998; | 98US-0090694P. | PR | 06-OCT-1998; | 98US-0103258P. |
| PR | 25-JUN-1998; | 98US-0090695P. | PR | 06-OCT-1998; | 98US-0103449P. |
| PR | 26-JUN-1998; | 98US-0090696P. | Query Match 94.3%; Score 417; DB 6; Length 440; | | |
| PR | 26-JUN-1998; | 98US-0090696P. | Best Local Similarity 100.0%; Pred. No. 0; | | |
| PR | 26-JUN-1998; | 98US-0090862P. | Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0; | | |
| PR | 26-JUN-1998; | 98US-0090863P. | | | |
| PR | 26-JUN-1998; | 98US-0091010P. | | | |
| PR | 01-JUL-1998; | 98US-0091359P. | QY | 26 | LRLLLLFSAALIPGTGQNLFTKDVTVIEGEVATISQVNVKSDSVIQLNPNRQTIY 85 |
| PR | 01-JUL-1998; | 98US-0091544P. | Db | 24 | LRLLLLFSAALIPGTGQNLFTKDVTVIEGEVATISQVNVKSDSVIQLNPNRQTIY 83 |
| PR | 02-JUL-1998; | 98US-0091478P. | QY | 86 | FRDRLKDSRFOLLNFSSELKVSILTNVSIISDEGRYFCOLYTDPPQESYTTITVLVPPR 145 |
| PR | 02-JUL-1998; | 98US-0091486P. | Db | 84 | FRDRLKDSRFOLLNFSSELKVSILTNVSIISDEGRYFCOLYTDPPQESYTTITVLVPPR 143 |
| PR | 02-JUL-1998; | 98US-0091626P. | QY | 146 | NLMIDIQKDTAVEGEEIEVNCNTAMASKPATTIRWFKNGTELKKGSEVSEWSDMYTTSOL 205 |
| PR | 02-JUL-1998; | 98US-0091628P. | Db | 144 | NLMIDIQKDTAVEGEEIEVNCNTAMASKPATTIRWFKNGTELKKGSEVSEWSDMYTTSOL 203 |
| PR | 02-JUL-1998; | 98US-0091632P. | QY | 206 | MLKVHKEDGVPVICOVEHPANTGNIQTORYLEVQYKPOVHIQMTYPLQGLTREGDALEL 265 |
| PR | 24-JUL-1998; | 98US-0094006P. | Db | 204 | MLKVHKEDGVPVICOVEHPANTGNIQTORYLEVQYKPOVHIQMTYPLQGLTREGDALEL 263 |
| PR | 04-AUG-1998; | 98US-0095282P. | QY | 266 | TCEAIGKQPQVMTWVRVDDDEMPQHAVLSGPNLFINNLANKTNDNGTYRCEASNIYVGAHSD 325 |
| PR | 10-AUG-1998; | 98US-0095998P. | Db | 264 | TCEAIGKQPQVMTWVRVDDDEMPQHAVLSGPNLFINNLANKTNDNGTYRCEASNIYVGAHSD 323 |
| PR | 10-AUG-1998; | 98US-0096012P. | QY | 326 | YMLVYVDPPTTIPPTTTTTTTTTTTTTTTTTTTITITDSRAGEGSIKRAVDHAVIGGVAVVV 385 |
| PR | 17-AUG-1998; | 98US-0096757P. | | | |
| PR | 17-AUG-1998; | 98US-0096766P. | | | |
| PR | 17-AUG-1998; | 98US-0096867P. | | | |
| PR | 17-AUG-1998; | 98US-0096891P. | | | |
| PR | 18-AUG-1998; | 98US-0096897P. | | | |
| PR | 18-AUG-1998; | 98US-0096949P. | | | |
| PR | 18-AUG-1998; | 98US-0096959P. | | | |
| PR | 18-AUG-1998; | 98US-0097022P. | | | |
| PR | 26-AUG-1998; | 98US-0097952P. | | | |
| PR | 26-AUG-1998; | 98US-0097954P. | | | |

| | | | | | | |
|----|--------------|----------------|----|-----|---|-----|
| PR | 02-JUL-1998; | 98US-0091626P. | QY | 86 | FRDRLPKDSRFQLLNFSSELKVSLTNVSISDEGRYFCOLYTDPPQESYTTITVLVPPR | 145 |
| PR | 02-JUL-1998; | 98US-0091628P. | | | | |
| PR | 02-JUL-1998; | 98US-0091632P. | DB | 84 | FRDRLPKDSRFQLLNFSSELKVSLTNVSISDEGRYFCOLYTDPPQESYTTITVLVPPR | 143 |
| PR | 24-JUL-1998; | 98US-0094006P. | | | | |
| PR | 04-AUG-1998; | 98US-0095282P. | QY | 146 | NLMIDIQKDTAVEGEBIEVNCTAMASKPATTIRWFKGNTLKGKSEVEEWSMYTTSOL | 205 |
| PR | 10-AUG-1998; | 98US-0095998P. | | | | |
| PR | 10-AUG-1998; | 98US-0096012P. | DB | 144 | NLMIDIQKDTAVEGEBIEVNCTAMASKPATTIRWFKGNTLKGKSEVEEWSMYTTSOL | 203 |
| PR | 17-AUG-1998; | 98US-0096757P. | | | | |
| PR | 17-AUG-1998; | 98US-0096766P. | QY | 206 | MLKVHKEDGVPVICQVEHPAVTGNLQTORYLEVOYKPOVHIOMTYPLQGLTBREGDALEL | 265 |
| PR | 17-AUG-1998; | 98US-0096867P. | | | | |
| PR | 17-AUG-1998; | 98US-0096897P. | DB | 204 | MLKVHKEDGVPVICQVEHPAVTGNLQTORYLEVOYKPOVHIOMTYPLQGLTBREGDALEL | 263 |
| PR | 18-AUG-1998; | 98US-0096897P. | | | | |
| PR | 18-AUG-1998; | 98US-0096949P. | QY | 266 | TCEAIGKQPQVMTWVRVDDDEMPQHAVLSPGNLFINNKNKTNGTYRCEASNIVGKAHSD | 325 |
| PR | 18-AUG-1998; | 98US-0096959P. | | | | |
| PR | 18-AUG-1998; | 98US-0097022P. | DB | 264 | TCEAIGKQPQVMTWVRVDDDEMPQHAVLSPGNLFINNKNKTNGTYRCEASNIVGKAHSD | 323 |
| PR | 26-AUG-1998; | 98US-0097952P. | | | | |
| PR | 26-AUG-1998; | 98US-0097954P. | QY | 326 | YMLVYVDPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTITITDSRAGEEGSIRAVDHAVIGGWAVV | 385 |
| PR | 26-AUG-1998; | 98US-0097955P. | | | | |
| PR | 26-AUG-1998; | 98US-0097971P. | DB | 324 | YMLVYVDPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTITITDSRAGEEGSIRAVDHAVIGGWAVV | 383 |
| PR | 26-AUG-1998; | 98US-0097974P. | | | | |
| PR | 26-AUG-1998; | 98US-0098014P. | QY | 386 | FAMLCLLIILGRYFARHKGTFTHEAKGADDAADATAIINAEQQNNSEKKEYFI | 442 |
| PR | 01-SEP-1998; | 98US-0098716P. | | | | |
| PR | 01-SEP-1998; | 98US-0098723P. | DB | 384 | FAMLCLLIILGRYFARHKGTFTHEAKGADDAADATAIINAEQQNNSEKKEYFI | 440 |
| PR | 02-SEP-1998; | 98US-0098803P. | | | | |
| PR | 02-SEP-1998; | 98US-0098821P. | | | | |
| PR | 02-SEP-1998; | 98US-0098843P. | | | | |
| PR | 09-SEP-1998; | 98US-0099602P. | | | | |
| PR | 10-SEP-1998; | 98US-0099741P. | | | | |
| PR | 10-SEP-1998; | 98US-0099754P. | | | | |
| PR | 10-SEP-1998; | 98US-0099763P. | | | | |
| PR | 10-SEP-1998; | 98US-0099812P. | | | | |
| PR | 15-SEP-1998; | 98US-0100388P. | | | | |
| PR | 16-SEP-1998; | 98US-0100662P. | | | | |
| PR | 16-SEP-1998; | 98US-0100664P. | | | | |
| PR | 16-SEP-1998; | 98US-0101751P. | | | | |
| PR | 16-SEP-1998; | 98US-0101751P. | | | | |
| PR | 16-SEP-1998; | 98US-0101751P. | | | | |
| PR | 17-SEP-1998; | 98US-0100683P. | | | | |
| PR | 17-SEP-1998; | 98US-0100684P. | | | | |
| PR | 17-SEP-1998; | 98US-0100919P. | | | | |
| PR | 17-SEP-1998; | 98US-0100930P. | | | | |
| PR | 18-SEP-1998; | 98US-0100849P. | | | | |
| PR | 18-SEP-1998; | 98US-0101014P. | | | | |
| PR | 18-SEP-1998; | 98US-0101068P. | | | | |
| PR | 23-SEP-1998; | 98US-0101471P. | | | | |
| PR | 23-SEP-1998; | 98US-0101472P. | | | | |
| PR | 23-SEP-1998; | 98US-0101475P. | | | | |
| PR | 23-SEP-1998; | 98US-0101477P. | | | | |
| PR | 24-SEP-1998; | 98US-0101738P. | | | | |
| PR | 24-SEP-1998; | 98US-0101739P. | | | | |
| PR | 24-SEP-1998; | 98US-0101743P. | | | | |
| PR | 24-SEP-1998; | 98US-0101922P. | | | | |
| PR | 25-SEP-1998; | 98US-0101786P. | | | | |
| PR | 25-SEP-1998; | 98US-0102207P. | | | | |
| PR | 25-SEP-1998; | 98US-0102240P. | | | | |
| PR | 29-SEP-1998; | 98US-0102330P. | | | | |
| PR | 29-SEP-1998; | 98US-0102331P. | | | | |
| PR | 30-SEP-1998; | 98US-0102487P. | | | | |
| PR | 30-SEP-1998; | 98US-0102570P. | | | | |
| PR | 30-SEP-1998; | 98US-0102571P. | | | | |
| PR | 01-OCT-1998; | 98US-0102684P. | | | | |
| PR | 01-OCT-1998; | 98US-0102687P. | | | | |
| PR | 02-OCT-1998; | 98US-0102965P. | | | | |
| PR | 06-OCT-1998; | 98US-0103258P. | | | | |
| PR | 06-OCT-1998; | 98US-0103449P. | | | | |

Query Match 94.3%; Score 417; DB 6; Length 440;

Best Local Similarity 100.0%; Pred. No. 0;

Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

| | | | |
|----|----|---|----|
| QY | 26 | LRLLLLFSAALIPFGQNLFTKQVTVIEGEVATISCVQNKSDSDSVIQLLNPNRQTIY | 85 |
| DB | 24 | LRLLLLFSAALIPFGQNLFTKQVTVIEGEVATISCVQNKSDSDSVIQLLNPNRQTIY | 83 |

Human secreted polypeptide PRO355, SEQ ID NO:34.

Human; PRO; secreted protein; transmembrane protein;

extracellular domain; tumour necrosis factor-alpha; TNF-alpha;

chondrocyte; proliferation; differentiation; cartilage disorder;

bone disorder; arthritis; sports injury; cancer; tumour; diagnosis;

adrenal tumour; lung; colon; breast; prostate; kidney; rectum; cervix;

liver; drug screening; transgenic animal; genetic analysis;

antiarthritic; vulnerary; gene therapy.

Homo sapiens.

US2003040056-A1.

27-FEB-2003.

21-JUN-2002; 2002US-00176916.

18-SEP-1997; 97US-0059263P.

18-SEP-1997; 97US-0059266P.

17-OCT-1997; 97US-0062250P.

21-OCT-1997; 97US-0063486P.

24-OCT-1997; 97US-0063120P.

24-OCT-1997; 97US-0063121P.

28-OCT-1997; 97US-0063540P.

28-OCT-1997; 97US-0063541P.

28-OCT-1997; 97US-0063544P.

28-OCT-1997; 97US-0063564P.

29-OCT-1997; 97US-0063734P.

31-OCT-1997; 97US-0063870P.

31-OCT-1997; 97US-0064103P.

13-NOV-1997; 97US-0065311P.

21-NOV-1997; 97US-0066120P.

24-NOV-1997; 97US-0066466P.

24-NOV-1997; 97US-0066772P.

11-DEC-1997; 97US-0069335P.

12-DEC-1997; 97US-0069425P.

17-DEC-1997; 97US-0069870P.

18-DEC-1997; 97US-0068017P.

10-MAR-1998; 98US-0077450P.

PR 11-MAR-1998; 98US-0077632P.
PR 11-MAR-1998; 98US-0077649P.
PR 20-MAR-1998; 98US-0078886P.
PR 20-MAR-1998; 98US-0078939P.
PR 27-MAR-1998; 98US-0079664P.
PR 27-MAR-1998; 98US-0079786P.
PR 31-MAR-1998; 98US-0080107P.
PR 31-MAR-1998; 98US-0080194P.
PR 01-APR-1998; 98US-0080327P.
PR 01-APR-1998; 98US-0080333P.
PR 08-APR-1998; 98US-0081049P.
PR 08-APR-1998; 98US-0081070P.
PR 09-APR-1998; 98US-0081195P.
PR 15-APR-1998; 98US-0081838P.
PR 21-APR-1998; 98US-0082568P.
PR 21-APR-1998; 98US-0082569P.
PR 22-APR-1998; 98US-0082704P.
PR 22-APR-1998; 98US-0082797P.
PR 28-APR-1998; 98US-0083322P.
PR 28-APR-1998; 98US-0083435P.
PR 29-APR-1998; 98US-0083496P.
PR 29-APR-1998; 98US-0083499P.
PR 29-APR-1998; 98US-0083559P.
PR 05-MAY-1998; 98US-0084366P.
PR 06-MAY-1998; 98US-0084414P.
PR 07-MAY-1998; 98US-0084639P.
PR 07-MAY-1998; 98US-0084640P.
PR 07-MAY-1998; 98US-0084643P.
PR 15-MAY-1998; 98US-0085579P.
PR 15-MAY-1998; 98US-0085580P.
PR 15-MAY-1998; 98US-0085582P.
PR 15-MAY-1998; 98US-0085700P.
PR 18-MAY-1998; 98US-0086032P.
PR 22-MAY-1998; 98US-0086329P.
PR 22-MAY-1998; 98US-0086486P.
PR 28-MAY-1998; 98US-0087098P.
PR 28-MAY-1998; 98US-0087208P.
PR 02-JUN-1998; 98US-0087609P.
PR 02-JUN-1998; 98US-0087759P.
PR 03-JUN-1998; 98US-0087827P.
PR 04-JUN-1998; 98US-0088025P.
PR 04-JUN-1998; 98US-0088028P.
PR 04-JUN-1998; 98US-0088029P.
PR 04-JUN-1998; 98US-0088033P.
PR 04-JUN-1998; 98US-0088326P.
PR 05-JUN-1998; 98US-0088167P.
PR 05-JUN-1998; 98US-0088202P.
PR 05-JUN-1998; 98US-0088212P.
PR 05-JUN-1998; 98US-0088217P.
PR 09-JUN-1998; 98US-0088655P.
PR 10-JUN-1998; 98US-0088722P.
PR 10-JUN-1998; 98US-0088738P.
PR 10-JUN-1998; 98US-0088740P.
PR 10-JUN-1998; 98US-0088811P.
PR 10-JUN-1998; 98US-0088824P.
PR 10-JUN-1998; 98US-0088825P.
PR 10-JUN-1998; 98US-0088826P.
PR 11-JUN-1998; 98US-0088861P.
PR 11-JUN-1998; 98US-0088863P.
PR 11-JUN-1998; 98US-0088876P.
PR 12-JUN-1998; 98US-0089090P.
PR 12-JUN-1998; 98US-0089105P.
PR 16-JUN-1998; 98US-0089512P.
PR 16-JUN-1998; 98US-0089514P.
PR 17-JUN-1998; 98US-0089538P.
PR 17-JUN-1998; 98US-0089598P.
PR 17-JUN-1998; 98US-0089653P.
PR 18-JUN-1998; 98US-0089908P.
PR 19-JUN-1998; 98US-0089952P.
PR 22-JUN-1998; 98US-0090246P.
PR 22-JUN-1998; 98US-0090252P.
PR 22-JUN-1998; 98US-0090254P.
PR 24-JUN-1998; 98US-0090429P.

PR 24-JUN-1998; 98US-0090435P.
PR 24-JUN-1998; 98US-0090444P.
PR 24-JUN-1998; 98US-0090461P.
PR 24-JUN-1998; 98US-0090535P.
PR 24-JUN-1998; 98US-0090540P.
PR 25-JUN-1998; 98US-0090676P.
PR 25-JUN-1998; 98US-0090678P.
PR 25-JUN-1998; 98US-0090688P.
PR 25-JUN-1998; 98US-0090690P.
PR 25-JUN-1998; 98US-0090694P.
PR 25-JUN-1998; 98US-0090695P.
PR 25-JUN-1998; 98US-0090696P.
PR 26-JUN-1998; 98US-00105413.
PR 26-JUN-1998; 98US-0090862P.
PR 26-JUN-1998; 98US-0090863P.
PR 26-JUN-1998; 98US-0091010P.
PR 01-JUL-1998; 98US-0091359P.
PR 01-JUL-1998; 98US-0091544P.
PR 02-JUL-1998; 98US-0091478P.
PR 02-JUL-1998; 98US-0091486P.
PR 02-JUL-1998; 98US-0091626P.
PR 02-JUL-1998; 98US-0091628P.
PR 02-JUL-1998; 98US-0091632P.
PR 24-JUL-1998; 98US-0094006P.
PR 04-AUG-1998; 98US-0095282P.
PR 10-AUG-1998; 98US-0095998P.
PR 10-AUG-1998; 98US-0096012P.
PR 17-AUG-1998; 98US-0096757P.
PR 17-AUG-1998; 98US-0096766P.
PR 17-AUG-1998; 98US-0096867P.
PR 17-AUG-1998; 98US-0096891P.
PR 17-AUG-1998; 98US-0096897P.
PR 18-AUG-1998; 98US-0096949P.
PR 18-AUG-1998; 98US-0096959P.
PR 18-AUG-1998; 98US-0097022P.
PR 26-AUG-1998; 98US-0097952P.
PR 26-AUG-1998; 98US-0097954P.
PR 26-AUG-1998; 98US-0097955P.
PR 26-AUG-1998; 98US-0097971P.
PR 26-AUG-1998; 98US-0097974P.
PR 26-AUG-1998; 98US-0098014P.
PR 01-SEP-1998; 98US-0098716P.
PR 01-SEP-1998; 98US-0098723P.
PR 02-SEP-1998; 98US-0098803P.
PR 02-SEP-1998; 98US-0098821P.
PR 02-SEP-1998; 98US-0098843P.
PR 09-SEP-1998; 98US-0099602P.
PR 10-SEP-1998; 98US-0099741P.
PR 10-SEP-1998; 98US-0099754P.
PR 10-SEP-1998; 98US-0099763P.
PR 10-SEP-1998; 98US-0099812P.
PR 15-SEP-1998; 98US-0100388P.
PR 16-SEP-1998; 98US-0100662P.
PR 16-SEP-1998; 98US-0100664P.
PR 16-SEP-1998; 98US-0100664P.
PR 16-SEP-1998; 98US-0101751P.
PR 16-SEP-1998; 98MO-US019330.
PR 17-SEP-1998; 98US-0100683P.
PR 17-SEP-1998; 98US-0100684P.
PR 17-SEP-1998; 98US-0100919P.
PR 17-SEP-1998; 98US-0100930P.
PR 18-SEP-1998; 98US-0100849P.
PR 18-SEP-1998; 98US-0101477P.
PR 18-SEP-1998; 98US-0101478P.
PR 18-SEP-1998; 98US-0101478P.
PR 23-SEP-1998; 98US-0101471P.
PR 23-SEP-1998; 98US-0101472P.
PR 23-SEP-1998; 98US-0101475P.
PR 23-SEP-1998; 98US-0101477P.
PR 23-SEP-1998; 98US-0101738P.
PR 24-SEP-1998; 98US-0101739P.
PR 24-SEP-1998; 98US-0101743P.
PR 24-SEP-1998; 98US-0101922P.
PR 25-SEP-1998; 98US-0101786P.
PR 29-SEP-1998; 98US-0102207P.

| | | |
|--|-------------------------------------|--|
| PR | 10-JUN-1998; | 98US-0088826P. |
| PR | 11-JUN-1998; | 98US-0088861P. |
| PR | 11-JUN-1998; | 98US-0088863P. |
| PR | 11-JUN-1998; | 98US-0088876P. |
| PR | 12-JUN-1998; | 98US-0089090P. |
| PR | 12-JUN-1998; | 98US-0089105P. |
| PR | 16-JUN-1998; | 98US-0089512P. |
| PR | 16-JUN-1998; | 98US-0089514P. |
| PR | 17-JUN-1998; | 98US-0089538P. |
| PR | 17-JUN-1998; | 98US-0089598P. |
| PR | 17-JUN-1998; | 98US-0089653P. |
| PR | 18-JUN-1998; | 98US-0089908P. |
| PR | 19-JUN-1998; | 98US-0089952P. |
| PR | 22-JUN-1998; | 98US-0090246P. |
| PR | 22-JUN-1998; | 98US-0090252P. |
| PR | 22-JUN-1998; | 98US-0090254P. |
| PR | 24-JUN-1998; | 98US-0090439P. |
| PR | 24-JUN-1998; | 98US-0090435P. |
| PR | 24-JUN-1998; | 98US-0090444P. |
| PR | 24-JUN-1998; | 98US-0090461P. |
| PR | 24-JUN-1998; | 98US-0090535P. |
| PR | 24-JUN-1998; | 98US-0090540P. |
| PR | 25-JUN-1998; | 98US-0090676P. |
| PR | 25-JUN-1998; | 98US-0090678P. |
| PR | 25-JUN-1998; | 98US-0090688P. |
| PR | 25-JUN-1998; | 98US-0090690P. |
| PR | 25-JUN-1998; | 98US-0090694P. |
| PR | 25-JUN-1998; | 98US-0090695P. |
| PR | 25-JUN-1998; | 98US-0090696P. |
| PR | 26-JUN-1998; | 98US-00105413. |
| PR | 26-JUN-1998; | 98US-0090862P. |
| PR | 26-JUN-1998; | 98US-0090863P. |
| PR | 26-JUN-1998; | 98US-0091010P. |
| PR | 01-JUL-1998; | 98US-0091359P. |
| PR | 01-JUL-1998; | 98US-0091544P. |
| PR | 02-JUL-1998; | 98US-0091478P. |
| PR | 02-JUL-1998; | 98US-0091486P. |
| PR | 02-JUL-1998; | 98US-0091626P. |
| PR | 02-JUL-1998; | 98US-0091628P. |
| PR | 02-JUL-1998; | 98US-0091632P. |
| PR | 24-JUL-1998; | 98US-0094006P. |
| PR | 04-AUG-1998; | 98US-0095282P. |
| PR | 10-AUG-1998; | 98US-0095998P. |
| PR | 10-AUG-1998; | 98US-0096012P. |
| PR | 17-AUG-1998; | 98US-0096757P. |
| PR | 17-AUG-1998; | 98US-0096766P. |
| PR | 17-AUG-1998; | 98US-0096891P. |
| PR | 17-AUG-1998; | 98US-0096897P. |
| PR | 18-AUG-1998; | 98US-0096949P. |
| PR | 18-AUG-1998; | 98US-0096959P. |
| PR | 18-AUG-1998; | 98US-0097022P. |
| PR | 26-AUG-1998; | 98US-0097952P. |
| PR | 26-AUG-1998; | 98US-0097954P. |
| PR | 26-AUG-1998; | 98US-0097955P. |
| PR | 26-AUG-1998; | 98US-0097955P. |
| PR | 26-AUG-1998; | 98US-0097971P. |
| PR | 26-AUG-1998; | 98US-0097974P. |
| PR | 26-AUG-1998; | 98US-0098014P. |
| PR | 01-SEP-1998; | 98US-0098716P. |
| PR | 01-SEP-1998; | 98US-0098723P. |
| PR | 02-SEP-1998; | 98US-0098803P. |
| PR | 02-SEP-1998; | 98US-0098821P. |
| PR | 02-SEP-1998; | 98US-0098843P. |
| PR | 09-SEP-1998; | 98US-0099602P. |
| PR | 10-SEP-1998; | 98US-0099741P. |
| PR | 10-SEP-1998; | 98US-0099754P. |
| PR | 10-SEP-1998; | 98US-0099763P. |
| PR | 10-SEP-1998; | 98US-0099812P. |
| PR | 15-SEP-1998; | 98US-0100388P. |
| PR | 16-SEP-1998; | 98US-0100662P. |
| PR | 16-SEP-1998; | 98US-0100664P. |
| PR | 16-SEP-1998; | 98US-0101751P. |
| PR | 16-SEP-1998; | 98WO-US019330. |
| PR | 17-SEP-1998; | 98US-0100683P. |
| PR | 17-SEP-1998; | 98US-0100684P. |
| PR | 17-SEP-1998; | 98US-0100919P. |
| PR | 18-SEP-1998; | 98US-0100849P. |
| PR | 18-SEP-1998; | 98US-0101014P. |
| PR | 18-SEP-1998; | 98US-0101068P. |
| PR | 23-SEP-1998; | 98US-0101471P. |
| PR | 23-SEP-1998; | 98US-0101472P. |
| PR | 23-SEP-1998; | 98US-0101475P. |
| PR | 23-SEP-1998; | 98US-0101477P. |
| PR | 24-SEP-1998; | 98US-0101738P. |
| PR | 24-SEP-1998; | 98US-0101739P. |
| PR | 24-SEP-1998; | 98US-0101743P. |
| PR | 24-SEP-1998; | 98US-0101922P. |
| PR | 25-SEP-1998; | 98US-0101786P. |
| PR | 25-SEP-1998; | 98US-010207P. |
| PR | 29-SEP-1998; | 98US-0102240P. |
| PR | 29-SEP-1998; | 98US-0102330P. |
| PR | 29-SEP-1998; | 98US-0102331P. |
| PR | 30-SEP-1998; | 98US-0102487P. |
| PR | 30-SEP-1998; | 98US-0102570P. |
| PR | 30-SEP-1998; | 98US-0102571P. |
| PR | 01-OCT-1998; | 98US-0102684P. |
| PR | 01-OCT-1998; | 98US-0102687P. |
| Query Match 94.3%; Score 417; DB 6; Length 440; | | |
| Best Local Similarity 100.0%; Pred. No. 0; | | |
| Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0; | | |
| Qy | 26 | LRLLLLFSAAALPTGQGNLFTKDVTVIEGEVATISCVNKSDDSVIQLLNROTIIY 85 |
| Db | 24 | LRLLLLFSAAALPTGQGNLFTKDVTVIEGEVATISCVNKSDDSVIQLLNROTIIY 83 |
| Qy | 86 | FRDPRPLKDSRFQLLNFSSELKVLNVSISDEGRYFCOLYTDPPQESYTTITVLVPPR 145 |
| Db | 84 | FRDPRPLKDSRFQLLNFSSELKVLNVSISDEGRYFCOLYTDPPQESYTTITVLVPPR 143 |
| Qy | 146 | NLMIDIQKOTAVEGEEIEVNCAMASKPATTIRWFKGNTELKKGSEVEWSDMYTVTSQ 205 |
| Db | 144 | NLMIDIQKOTAVEGEEIEVNCAMASKPATTIRWFKGNTELKKGSEVEWSDMYTVTSQ 203 |
| Qy | 206 | MLKVHKEDDGPVVCQVEHPAVTGNLTQRYLEYQYKPVHIQMTYFLOGLTREGDALEL 265 |
| Db | 204 | MLKVHKEDDGPVVCQVEHPAVTGNLTQRYLEYQYKPVHIQMTYFLOGLTREGDALEL 263 |
| Qy | 266 | TCEAIGKQPQVMVTVRVDDEMPOHVLSGPNLFINNLTNDCTYRCEASNIVGKAHSD 325 |
| Db | 264 | TCEAIGKQPQVMVTVRVDDEMPOHVLSGPNLFINNLTNDCTYRCEASNIVGKAHSD 323 |
| Qy | 326 | YMLVYDPPPTTIPPTTTTTTTTTTTTTTTTTTTTTITSDRAGEEGSIRAVDHAVIGVAVV 385 |
| Db | 324 | YMLVYDPPPTTIPPTTTTTTTTTTTTTTTTTTTTTITSDRAGEEGSIRAVDHAVIGVAVV 383 |
| Qy | 386 | FAMLCLLIILGRYFARHKGYFTHEAKGADADADATTAIINAEQQNNSEKKEYFI 442 |
| Db | 384 | FAMLCLLIILGRYFARHKGYFTHEAKGADADADATTAIINAEQQNNSEKKEYFI 440 |
| RESULT 28 | | |
| ABU60240 | | |
| ID | ABU60240 | standard; protein; 440 AA. |
| XX | XX | |
| AC | ABU60240; | |
| XX | XX | |
| DT | 24-APR-2003 | (first entry) |
| XX | XX | |
| DE | Human PRO | polypeptide #11. |
| XX | XX | |
| KW | Human; PRO; | secreted polypeptide; transmembrane polypeptide; cancer; |
| KW | inflammatory disease; | atherosclerosis; cardiac injury; AIDS; infertility; |
| KW | birth defect; | premature aging; diabetes; dog; cat; horse; |
| KW | acquired immunodeficiency syndrome; | cow; sheep; pig; goat; rabbit; |

KW industry; cytostatic; antiinflammatory; cardiant; antiinfertility;
KW anti-HIV; antiarteriosclerotic; antidiabetic.

XX Homo sapiens.

XX US2002132768-A1.

XX 19-SEP-2002.

XX 31-AUG-2001; 2001US-00945015.

XX 03-DEC-1997; 97US-0067411P.

XX 11-DEC-1997; 97US-0069278P.

XX 11-DEC-1997; 97US-0069334P.

XX 11-DEC-1997; 97US-0069335P.

XX 12-DEC-1997; 97US-0069425P.

XX 16-DEC-1997; 97US-0069694P.

XX 16-DEC-1997; 97US-0069696P.

XX 16-DEC-1997; 97US-0069702P.

XX 17-DEC-1997; 97US-0069870P.

XX 17-DEC-1997; 97US-0069873P.

XX 18-DEC-1997; 97US-0068017P.

XX 05-JAN-1998; 98US-0070440P.

XX 09-FEB-1998; 98US-0074086P.

XX 09-FEB-1998; 98US-0074092P.

XX 25-FEB-1998; 98US-0075945P.

XX 16-SEP-1998; 98WO-0019330.

XX 01-DEC-1998; 98WO-US025108.

XX 16-DEC-1998; 98US-00216021.

XX 18-DEC-1998; 98US-0112850P.

XX 22-DEC-1998; 98US-00218517.

XX 22-DEC-1998; 98US-0113296P.

XX 03-MAR-1999; 99US-00254311.

XX 22-JUN-1999; 99WO-US012252.

XX 28-JUL-1999; 99US-0146222P.

XX 13-SEP-1999; 99WO-US021090.

XX 30-NOV-1999; 99WO-US028313.

XX 01-DEC-1999; 99WO-US028409.

XX 01-DEC-1999; 99WO-US028301.

XX 16-DEC-1999; 99WO-US030095.

XX 11-FEB-2000; 2000WO-US033565.

XX 22-FEB-2000; 2000WO-US004414.

XX 02-MAR-2000; 2000WO-US005841.

XX 30-MAR-2000; 2000WO-US008439.

XX 22-MAY-2000; 2000WO-US014042.

XX 28-JUL-2000; 2000WO-US020710.

XX 01-DEC-2000; 2000WO-US032678.

XX 28-FEB-2001; 2001WO-US006520.

XX 25-MAY-2001; 2001WO-US0086028.

XX (GETH) GENENTECH INC.

XX Baker KP, Botstein D, Eaton DL, Ferrara N, Filvaroff E;

XX Gerritsen ME, Goddard A, Godowski PJ, Grimaldi JC, Gurney AL;

XX Hillan KJ, Kljavin IJ, Napier MA, Roy WA, Tumas B, Wood WI;

XX WPI; 2003-174088/17.

XX N-PSDB; ABX89477.

XX New secreted and transmembrane polypeptides (e.g. PRO241, for use in

XX pharmaceuticals, diagnostics or bioreactors, particularly for detecting

XX or treating e.g. cancers, infertility or acquired immunodeficiency

XX syndrome in mammals.

XX Claim 1; Fig 24; 173pp; English.

XX The invention relates to a human secreted and transmembrane polypeptide

XX (PRO) and the polynucleotide encoding it. The PRO polypeptide or

XX polynucleotide is useful in pharmaceuticals, diagnostics, biosensors or

XX bioreactors. These are particularly useful for detecting, or treating

XX cancers, inflammatory diseases, atherosclerosis, cardiac injury,

XX infertility, birth defects, premature aging, acquired immunodeficiency

XX syndrome (AIDS) and diabetic complications in mammals, e.g. humans, dogs,

CC cats, cattle, horses, sheep, pigs, goats or rabbits. The sequences are
CC also useful in biotechnological and medical research and in various
CC industrial applications. Sequences ABU60230-ABU60245 represent human PRO
CC polypeptides of the invention

XX SQ Sequence 440 AA;

Query Match 94.3%; Score 417; DB 6; Length 440;

Best Local Similarity 100.0%; Pred. No. 0;

Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 26 LRLLLLFSAALIPITGQNLFTKDVTVIEGVATISQVNVKSDSDSVIOLLNPNRTIY 85

Db 24 LRLLLLFSAALIPITGQNLFTKDVTVIEGVATISQVNVKSDSDSVIOLLNPNRTIY 83

Qy 86 FRDFRPLKDSRFOLLNPFSSSELKVSITNVSIISDEGRYFCOLYTDPPQESYTTITVLVPPR 145

Db 84 FRDFRPLKDSRFOLLNPFSSSELKVSITNVSIISDEGRYFCOLYTDPPQESYTTITVLVPPR 143

Qy 146 NLMIDIQKDTAVEGEEIEVNCNTAMASKPATTIRWFKGNTLKGKSEVEEWSDMYTVTSOL 205

Db 144 NLMIDIQKDTAVEGEEIEVNCNTAMASKPATTIRWFKGNTLKGKSEVEEWSDMYTVTSOL 203

Qy 206 MLKVHKEDDGPVICQVEHPAVTGNLQTOYRLEVQYKQVHIQMTYPLQGLTREGDALEL 265

Db 204 MLKVHKEDDGPVICQVEHPAVTGNLQTOYRLEVQYKQVHIQMTYPLQGLTREGDALEL 263

Qy 266 TCEAIGKQPQPMVTVYRVDDMPQHAVLSGPNLFINNLANKTNDNGTYRCEASNIVGKAHSD 325

Db 264 TCEAIGKQPQPMVTVYRVDDMPQHAVLSGPNLFINNLANKTNDNGTYRCEASNIVGKAHSD 323

Qy 326 YMLYVYDPPPTTIPPPPTTT 385

Db 324 YMLYVYDPPPTTIPPPPTTT 383

Qy 386 FAMLCLLIILGRYFARHKGTYFTHEAKGADDAADATATINARGGQNNSEKKEYFI 442

Db 384 FAMLCLLIILGRYFARHKGTYFTHEAKGADDAADATATINARGGQNNSEKKEYFI 440

RESULT 29

ABU85594

ID ABU85594 standard; protein; 440 AA.

XX AC ABU85594;

DT 02-JUL-2003 (first entry)

XX XX Human PRO polypeptide #17.

KW Human; PRO; secreted polypeptide; transmembrane polypeptide;

KW tumour necrosis factor alpha; TNF-alpha; chondrocyte cell; tumour;

KW cytostatic.

XX OS Homo sapiens.

XX US2003036140-A1.

XX PD 20-FEB-2003.

XX PF 01-JUL-2002; 2002US-00187588.

XX PR 26-JUN-1998; 98US-00105413.

XX PR 16-SEP-1998; 98WO-US019330.

XX PR 07-OCT-1998; 98US-00168978.

XX PR 07-OCT-1998; 98WO-US021141.

XX PR 06-NOV-1998; 98US-00187368.

XX PR 01-DEC-1998; 98WO-US025108.

XX PR 07-DEC-1998; 98US-00202054.

XX PR 03-MAR-1999; 99US-00254311.

XX PR 08-MAR-1999; 99WO-US005028.

XX PR 14-MAY-1999; 99US-00311832.

XX PR 14-MAY-1999; 99WO-US010733.

PR 02-JUN-1999; 99WO-US012252.
PR 25-AUG-1999; 99US-00380137.
PR 25-AUG-1999; 99US-00380138.
PR 25-AUG-1999; 99US-00380139.
PR 25-AUG-1999; 99US-00380142.
PR 01-SEP-1999; 99WO-US020111.
PR 15-SEP-1999; 99WO-US021090.
PR 18-OCT-1999; 99US-00403297.
PR 12-NOV-1999; 99US-00423844.
PR 01-DEC-1999; 99WO-US028301.
PR 02-DEC-1999; 99WO-US028551.
PR 30-DEC-1999; 99WO-US031274.
PR 05-JAN-2000; 2000WO-US000219.
PR 18-FEB-2000; 2000WO-US004341.
PR 18-FEB-2000; 2000WO-US004342.
PR 22-FEB-2000; 2000WO-US004414.
PR 24-FEB-2000; 2000WO-US005004.
PR 01-MAR-2000; 2000WO-US005601.
PR 02-MAR-2000; 2000WO-US005841.
PR 15-MAR-2000; 2000WO-US006884.
PR 30-MAR-2000; 2000WO-US008439.
PR 17-MAY-2000; 2000WO-US013705.
PR 22-MAY-2000; 2000WO-US014042.
PR 30-MAY-2000; 2000WO-US014941.
PR 02-JUN-2000; 2000WO-US015264.
PR 28-JUN-2000; 2000WO-US020710.
PR 22-AUG-2000; 2000US-00644848.
PR 24-AUG-2000; 2000WO-US023328.
PR 18-SEP-2000; 2000US-00664610.
PR 18-SEP-2000; 2000US-00665350.
PR 08-NOV-2000; 2000US-00709238.
PR 08-NOV-2000; 2000WO-US030952.
PR 01-DEC-2000; 2000WO-US032678.
PR 20-DEC-2000; 2000US-00747259.
PR 20-DEC-2000; 2000WO-US034956.
PR 28-FEB-2001; 2001WO-US006520.
PR 22-MAR-2001; 2001US-00816744.
PR 10-MAY-2001; 2001US-00854208.
PR 10-MAY-2001; 2001US-00854280.
PR 25-MAY-2001; 2001US-00866028.
PR 01-JUN-2001; 2001WO-US017800.
PR 05-JUN-2001; 2001US-00874503.
PR 20-JUN-2001; 2001WO-US019692.
PR 29-JUN-2001; 2001WO-US021066.
PR 09-JUL-2001; 2001WO-US021735.
PR 18-JUL-2001; 2001US-00908827.
PR 30-JUL-2001; 2001US-00918585.
PR 06-AUG-2001; 2001US-00924419.
PR 13-AUG-2001; 2001US-00929404.
PR 16-AUG-2001; 2001US-00931836.
PR 28-AUG-2001; 2001US-00941992.
PR 29-AUG-2001; 2001WO-US027099.
PR 04-SEP-2001; 2001US-00946374.
PR 15-JAN-2002; 2002US-00052586.
PR XX
PA (GETH) GENENTECH INC.
XX Baker KP, Chen J, Desnoyers L, Goddard A, Godowski PJ, Gurney AL;
XX Pan J, Smith V, Watanabe CK, Wood WI, Zhang Z;
XX WPI; 2003-332028/31.
XX N-PSDB; ACA72787.
XX Three hundred and five nucleic acids encoding PRO polypeptides, useful
XX for the manufacture of a medicament for diagnosing or treating tumor.
XX
XX Claim 11; Fig 34; 707pp; English.
XX
XX The invention relates to human PRO polypeptides (secreted and
XX transmembrane polypeptides) and the PRO polynucleotides encoding them.
XX The invention also relates to a method for stimulating the release of
XX tumour necrosis factor alpha (TNF-alpha) from human blood by contacting
XX the blood with a sequence of the invention, a method for stimulating the

CC proliferation or differentiation of chondrocyte cells by contacting the
CC cells with a PRO polypeptide and a method for detecting the presence of a
CC tumor in a mammal. The polypeptides and polynucleotides are useful for
CC the manufacture of a medicament for diagnosing or treating a tumor in a
CC mammal. Sequences ABUS578-ABUS882 represent human PRO polypeptides of
CC the invention. Note: The sequence data for this patent is also available
CC in electronic format from USPTO at seqdata.uspto.gov/sequence.html
XX
SQ Sequence 440 AA;

Query Match 94.3%; Score 417; DB 6; Length 440;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 26 LRLLLLFSAAALPTGQGNLFTKDVTVIEGEVATISQVNVKSDSDSVIQLLPNRQTIY 85
DB 24 LRLLLLFSAAALPTGQGNLFTKDVTVIEGEVATISQVNVKSDSDSVIQLLPNRQTIY 83
QY 86 FRDFRPLKDSRFQLLNFSSELKVSLSLTNVSISDEGRYFCOLYTDPPQESYTTITVLVPPR 145
DB 84 FRDFRPLKDSRFQLLNFSSELKVSLSLTNVSISDEGRYFCOLYTDPPQESYTTITVLVPPR 143
QY 146 NLMDIQKDTAVGEIEEVNCTAMASKPATIRWFKGNTELKKGSEVEEWSDMYTVTSOL 205
DB 144 NLMDIQKDTAVGEIEEVNCTAMASKPATIRWFKGNTELKKGSEVEEWSDMYTVTSOL 203
QY 206 MLKVHKEDDGPVVCQVEHPAVTGNLQRYLYEVQYKPVHIQWYPLQGLTREGDALEL 265
DB 204 MLKVHKEDDGPVVCQVEHPAVTGNLQRYLYEVQYKPVHIQWYPLQGLTREGDALEL 263
QY 266 TCEAIGKQPQVMVTVRVDDMPQHAVLSQPNLFINNLKNTDNGTYRCEASINVGKHAHD 325
DB 264 TCEAIGKQPQVMVTVRVDDMPQHAVLSQPNLFINNLKNTDNGTYRCEASINVGKHAHD 323
QY 326 YMLVYVDPPTTIPPTTTTTTTTTTTTTTTTTTTTTITDTSRAGEGSIKRAVDHAVIGGVAVV 385
DB 324 YMLVYVDPPTTIPPTTTTTTTTTTTTTTTTTTTTTITDTSRAGEGSIKRAVDHAVIGGVAVV 383
QY 386 FAMLCLLIILGRYPARHKGTYFTHEAKGADDAADADATAIINAEQGNNSSEKKEYFI 442
DB 384 FAMLCLLIILGRYPARHKGTYFTHEAKGADDAADADATAIINAEQGNNSSEKKEYFI 440

RESULT 30

ABU98754
ID ABU98754 standard; protein; 440 AA.

XX AC ABU98754;

XX DT 01-AUG-2003 (first entry)

XX DE Novel human secreted and transmembrane protein PRO355.

XX KW Human; secreted and transmembrane protein; PRO; cytostatic; gene therapy;
XX KW chondrocyte stimulator; tumour; adrenal tumour; lung tumour;
XX KW colon tumour; breast tumour; prostate tumour; rectal tumour;
XX KW cervical tumour; liver tumour; TNF-alpha release;
XX KW tumour necrosis factor alpha release; chondrocyte cell proliferation;
XX KW chondrocyte cell differentiation; pharmaceutical; diagnostic; biosensor;
XX KW bioreactor.

XX OS Homo sapiens.

XX PN US2003013153-A1.

XX PD 16-JAN-2003.

XX XX 19-JUN-2002; 2002US-00175737.

XX PF 18-SEP-1997; 97US-0059263P.

XX PR 18-SEP-1997; 97US-0059266P.

XX PR 17-OCT-1997; 97US-0062250P.

XX PR 21-OCT-1997; 97US-0063486P.

PR 24-OCT-1997; 97US-00631120P.
PR 24-OCT-1997; 97US-00631121P.
PR 28-OCT-1997; 97US-0063540P.
PR 28-OCT-1997; 97US-0063541P.
PR 28-OCT-1997; 97US-0063544P.
PR 28-OCT-1997; 97US-0063564P.
PR 29-OCT-1997; 97US-0063734P.
PR 31-OCT-1997; 97US-0063870P.
PR 31-OCT-1997; 97US-0064103P.
PR 13-NOV-1997; 97US-0065311P.
PR 21-NOV-1997; 97US-00661120P.
PR 24-NOV-1997; 97US-0066466P.
PR 24-NOV-1997; 97US-0066772P.
PR 11-DEC-1997; 97US-0069335P.
PR 12-DEC-1997; 97US-0069435P.
PR 17-DEC-1997; 97US-0069870P.
PR 18-DEC-1997; 97US-0068017P.
PR 10-MAR-1998; 98US-0077450P.
PR 11-MAR-1998; 98US-0077632P.
PR 11-MAR-1998; 98US-0077649P.
PR 20-MAR-1998; 98US-0078886P.
PR 20-MAR-1998; 98US-0078939P.
PR 27-MAR-1998; 98US-0079664P.
PR 27-MAR-1998; 98US-0079786P.
PR 31-MAR-1998; 98US-0080107P.
PR 31-MAR-1998; 98US-0080194P.
PR 01-APR-1998; 98US-0080327P.
PR 01-APR-1998; 98US-0080333P.
PR 08-APR-1998; 98US-00801049P.
PR 08-APR-1998; 98US-0081070P.
PR 09-APR-1998; 98US-0081195P.
PR 15-APR-1998; 98US-0081838P.
PR 21-APR-1998; 98US-0082568P.
PR 21-APR-1998; 98US-0082569P.
PR 22-APR-1998; 98US-0082704P.
PR 22-APR-1998; 98US-0082787P.
PR 28-APR-1998; 98US-0083322P.
PR 29-APR-1998; 98US-0083495P.
PR 29-APR-1998; 98US-0083496P.
PR 29-APR-1998; 98US-0083499P.
PR 29-APR-1998; 98US-0083559P.
PR 05-MAY-1998; 98US-0084366P.
PR 06-MAY-1998; 98US-0084414P.
PR 07-MAY-1998; 98US-0084639P.
PR 07-MAY-1998; 98US-0084640P.
PR 07-MAY-1998; 98US-0084643P.
PR 15-MAY-1998; 98US-0085579P.
PR 15-MAY-1998; 98US-0085580P.
PR 15-MAY-1998; 98US-0085582P.
PR 15-MAY-1998; 98US-0085700P.
PR 18-MAY-1998; 98US-0086023P.
PR 22-MAY-1998; 98US-0086332P.
PR 22-MAY-1998; 98US-0086486P.
PR 28-MAY-1998; 98US-0087098P.
PR 28-MAY-1998; 98US-0087208P.
PR 02-JUN-1998; 98US-0087609P.
PR 02-JUN-1998; 98US-0087759P.
PR 03-JUN-1998; 98US-0087827P.
PR 04-JUN-1998; 98US-0088025P.
PR 04-JUN-1998; 98US-0088028P.
PR 04-JUN-1998; 98US-0088029P.
PR 04-JUN-1998; 98US-0088033P.
PR 04-JUN-1998; 98US-0088326P.
PR 05-JUN-1998; 98US-0088167P.
PR 05-JUN-1998; 98US-0088202P.
PR 05-JUN-1998; 98US-0088212P.
PR 05-JUN-1998; 98US-0088217P.
PR 09-JUN-1998; 98US-0088655P.
PR 10-JUN-1998; 98US-0088722P.
PR 10-JUN-1998; 98US-0088738P.
PR 10-JUN-1998; 98US-0088740P.
PR 10-JUN-1998; 98US-0088811P.
PR 10-JUN-1998; 98US-0088824P.
PR 10-JUN-1998; 98US-0088825P.
PR 10-JUN-1998; 98US-0088826P.
PR 11-JUN-1998; 98US-0088861P.
PR 11-JUN-1998; 98US-0088863P.
PR 11-JUN-1998; 98US-0088876P.
PR 12-JUN-1998; 98US-0088909P.
PR 12-JUN-1998; 98US-0089105P.
PR 16-JUN-1998; 98US-0089512P.
PR 16-JUN-1998; 98US-0089514P.
PR 17-JUN-1998; 98US-0089538P.
PR 17-JUN-1998; 98US-0089598P.
PR 17-JUN-1998; 98US-0089653P.
PR 18-JUN-1998; 98US-0089908P.
PR 19-JUN-1998; 98US-0089952P.
PR 22-JUN-1998; 98US-0090246P.
PR 22-JUN-1998; 98US-0090252P.
PR 22-JUN-1998; 98US-0090254P.
PR 24-JUN-1998; 98US-0090429P.
PR 24-JUN-1998; 98US-0090435P.
PR 24-JUN-1998; 98US-0090444P.
PR 24-JUN-1998; 98US-0090461P.
PR 24-JUN-1998; 98US-0090535P.
PR 24-JUN-1998; 98US-0090540P.
PR 25-JUN-1998; 98US-0090676P.
PR 25-JUN-1998; 98US-0090678P.
PR 25-JUN-1998; 98US-0090688P.
PR 25-JUN-1998; 98US-0090690P.
PR 25-JUN-1998; 98US-0090694P.
PR 25-JUN-1998; 98US-0090695P.
PR 25-JUN-1998; 98US-0090696P.
PR 26-JUN-1998; 98US-00105413.
PR 26-JUN-1998; 98US-0090862P.
PR 26-JUN-1998; 98US-0090863P.
PR 26-JUN-1998; 98US-0091010P.
PR 01-JUL-1998; 98US-0091359P.
PR 01-JUL-1998; 98US-0091544P.
PR 02-JUL-1998; 98US-0091478P.
PR 02-JUL-1998; 98US-0091486P.
PR 02-JUL-1998; 98US-0091626P.
PR 02-JUL-1998; 98US-0091628P.
PR 02-JUL-1998; 98US-0091632P.
PR 04-AUG-1998; 98US-0094006P.
PR 10-AUG-1998; 98US-0095998P.
PR 10-AUG-1998; 98US-0095982P.
PR 17-AUG-1998; 98US-0096012P.
PR 17-AUG-1998; 98US-0096757P.
PR 17-AUG-1998; 98US-0096766P.
PR 17-AUG-1998; 98US-0096867P.
PR 17-AUG-1998; 98US-0096891P.
PR 17-AUG-1998; 98US-009697P.
PR 18-AUG-1998; 98US-0096949P.
PR 18-AUG-1998; 98US-0096959P.
PR 18-AUG-1998; 98US-0097022P.
PR 26-AUG-1998; 98US-0097952P.
PR 26-AUG-1998; 98US-0097954P.
PR 26-AUG-1998; 98US-0097955P.
PR 26-AUG-1998; 98US-0097971P.
PR 26-AUG-1998; 98US-0097974P.
PR 26-AUG-1998; 98US-0098014P.
PR 01-SEP-1998; 98US-0098716P.
PR 01-SEP-1998; 98US-0098723P.
PR 02-SEP-1998; 98US-0098803P.
PR 02-SEP-1998; 98US-0098821P.
PR 02-SEP-1998; 98US-0098843P.
PR 03-SEP-1998; 98US-0099602P.
PR 10-SEP-1998; 98US-0099741P.
PR 10-SEP-1998; 98US-0099754P.
PR 10-SEP-1998; 98US-0099763P.
PR 15-SEP-1998; 98US-0099812P.
PR 15-SEP-1998; 98US-0100388P.
PR 16-SEP-1998; 98US-0100662P.
PR 16-SEP-1998; 98US-0100664P.
PR 16-SEP-1998; 98US-0101751P.

| | | | | | |
|----|--------------|----------------|----|--------------|------------------|
| PR | 04-JUN-1998; | 98US-0088028P. | PR | 01-SEP-1998; | 98US-0098716P. |
| PR | 04-JUN-1998; | 98US-0088029P. | PR | 01-SEP-1998; | 98US-0098723P. |
| PR | 04-JUN-1998; | 98US-0088033P. | PR | 02-SEP-1998; | 98US-0098803P. |
| PR | 04-JUN-1998; | 98US-0088036P. | PR | 02-SEP-1998; | 98US-0098821P. |
| PR | 05-JUN-1998; | 98US-0088167P. | PR | 02-SEP-1998; | 98US-0098843P. |
| PR | 05-JUN-1998; | 98US-0088202P. | PR | 03-SEP-1998; | 98US-0099602P. |
| PR | 05-JUN-1998; | 98US-0088212P. | PR | 10-SEP-1998; | 98US-0099741P. |
| PR | 05-JUN-1998; | 98US-0088217P. | PR | 10-SEP-1998; | 98US-0099754P. |
| PR | 09-JUN-1998; | 98US-0088655P. | PR | 10-SEP-1998; | 98US-0099763P. |
| PR | 10-JUN-1998; | 98US-0088722P. | PR | 10-SEP-1998; | 98US-0099812P. |
| PR | 10-JUN-1998; | 98US-0088738P. | PR | 15-SEP-1998; | 98US-0100388P. |
| PR | 10-JUN-1998; | 98US-0088740P. | PR | 16-SEP-1998; | 98US-0100662P. |
| PR | 10-JUN-1998; | 98US-0088811P. | PR | 16-SEP-1998; | 98US-0100664P. |
| PR | 10-JUN-1998; | 98US-0088824P. | PR | 16-SEP-1998; | 98US-0101751P. |
| PR | 10-JUN-1998; | 98US-0088825P. | PR | 16-SEP-1998; | 98US-0101751P. |
| PR | 10-JUN-1998; | 98US-0088826P. | PR | 17-SEP-1998; | 98US-01019330. |
| PR | 11-JUN-1998; | 98US-0088861P. | PR | 17-SEP-1998; | 98US-0100683P. |
| PR | 11-JUN-1998; | 98US-0088863P. | PR | 17-SEP-1998; | 98US-0100684P. |
| PR | 11-JUN-1998; | 98US-0088876P. | PR | 17-SEP-1998; | 98US-0100919P. |
| PR | 12-JUN-1998; | 98US-0089090P. | PR | 18-SEP-1998; | 98US-0100849P. |
| PR | 12-JUN-1998; | 98US-0089105P. | PR | 18-SEP-1998; | 98US-0101014P. |
| PR | 16-JUN-1998; | 98US-0089512P. | PR | 18-SEP-1998; | 98US-0101068P. |
| PR | 16-JUN-1998; | 98US-0089514P. | PR | 23-SEP-1998; | 98US-0101471P. |
| PR | 17-JUN-1998; | 98US-0089538P. | PR | 23-SEP-1998; | 98US-0101472P. |
| PR | 17-JUN-1998; | 98US-0089538P. | PR | 23-SEP-1998; | 98US-0101475P. |
| PR | 17-JUN-1998; | 98US-0089653P. | PR | 23-SEP-1998; | 98US-0101477P. |
| PR | 18-JUN-1998; | 98US-0089908P. | PR | 24-SEP-1998; | 98US-0101738P. |
| PR | 19-JUN-1998; | 98US-0089952P. | PR | 24-SEP-1998; | 98US-0101739P. |
| PR | 22-JUN-1998; | 98US-0090246P. | PR | 24-SEP-1998; | 98US-0101743P. |
| PR | 22-JUN-1998; | 98US-0090252P. | PR | 24-SEP-1998; | 98US-0101922P. |
| PR | 24-JUN-1998; | 98US-0090254P. | PR | 25-SEP-1998; | 98US-0101786P. |
| PR | 24-JUN-1998; | 98US-0090435P. | PR | 25-SEP-1998; | 98US-0102207P. |
| PR | 24-JUN-1998; | 98US-0090444P. | PR | 25-SEP-1998; | 98US-0102240P. |
| PR | 24-JUN-1998; | 98US-0090446P. | PR | 25-SEP-1998; | 98US-0102330P. |
| PR | 24-JUN-1998; | 98US-0090546P. | PR | 25-SEP-1998; | 98US-0102331P. |
| PR | 24-JUN-1998; | 98US-0090535P. | PR | 30-SEP-1998; | 98US-0102487P. |
| PR | 24-JUN-1998; | 98US-0090540P. | PR | 30-SEP-1998; | 98US-0102570P. |
| PR | 25-JUN-1998; | 98US-0090676P. | PR | 30-SEP-1998; | 98US-0102571P. |
| PR | 25-JUN-1998; | 98US-0090678P. | PR | 01-OCT-1998; | 98US-0102684P. |
| PR | 25-JUN-1998; | 98US-0090688P. | PR | 01-OCT-1998; | 98US-0102687P. |
| PR | 25-JUN-1998; | 98US-0090690P. | PR | 02-OCT-1998; | 98US-0102965P. |
| PR | 25-JUN-1998; | 98US-0090695P. | PR | 06-OCT-1998; | 98US-0103258P. |
| PR | 25-JUN-1998; | 98US-0090696P. | PR | 06-OCT-1998; | 98US-0103449P. |
| PR | 26-JUN-1998; | 98US-00105413. | | | |
| PR | 26-JUN-1998; | 98US-0090862P. | | | |
| PR | 26-JUN-1998; | 98US-0090863P. | | | |
| PR | 26-JUN-1998; | 98US-0091010P. | | | |
| PR | 01-JUL-1998; | 98US-0091359P. | Qy | 26 | LRLLLLFSAALIPITG |
| PR | 01-JUL-1998; | 98US-0091478P. | Db | 24 | LRLLLLFSAALIPITG |
| PR | 02-JUL-1998; | 98US-0091486P. | | | |
| PR | 02-JUL-1998; | 98US-0091626P. | Qy | 86 | FRDPRPKDSRFOLLN |
| PR | 02-JUL-1998; | 98US-0091628P. | Db | 84 | FRDPRPKDSRFOLLN |
| PR | 02-JUL-1998; | 98US-0091632P. | | | |
| PR | 24-JUL-1998; | 98US-0094006P. | Qy | 146 | NLMIDIKOTAVEGEEI |
| PR | 04-AUG-1998; | 98US-0095282P. | Db | 144 | NLMIDIKOTAVEGEEI |
| PR | 10-AUG-1998; | 98US-0095998P. | | | |
| PR | 10-AUG-1998; | 98US-0096012P. | Qy | 206 | MLKVHKEDDGPVVIC |
| PR | 17-AUG-1998; | 98US-0096757P. | Db | 204 | MLKVHKEDDGPVVIC |
| PR | 17-AUG-1998; | 98US-0096766P. | | | |
| PR | 17-AUG-1998; | 98US-0096867P. | Qy | 266 | TCEAIGKQPPQVMTW |
| PR | 17-AUG-1998; | 98US-0096891P. | Db | 264 | TCEAIGKQPPQVMTW |
| PR | 17-AUG-1998; | 98US-0096897P. | | | |
| PR | 18-AUG-1998; | 98US-0096949P. | Qy | 326 | YMLVYVDPPTTIPPP |
| PR | 18-AUG-1998; | 98US-0096959P. | Db | 324 | YMLVYVDPPTTIPPP |
| PR | 18-AUG-1998; | 98US-0097022P. | | | |
| PR | 26-AUG-1998; | 98US-0097952P. | Qy | 385 | YMLVYVDPPTTIPPP |
| PR | 26-AUG-1998; | 98US-0097954P. | Db | 383 | YMLVYVDPPTTIPPP |
| PR | 26-AUG-1998; | 98US-0097955P. | | | |
| PR | 26-AUG-1998; | 98US-0097971P. | Qy | 442 | FAMLCLLIILGRYFAR |
| PR | 26-AUG-1998; | 98US-0098014P. | | | |


```
Db          384 FAMLCILLILGRYFARHKGTFTHEAKGADDAADADTRINABGQNNSEKKEYFI 440
RESULT 32
ABU91675
ID ABU91675 standard; protein; 440 AA.
XX AC ABU91675;
XX DT
XX DE 11-AUG-2003 (first entry)
XX DE Novel human secreted and transmembrane protein PRO355.
XX KW Human; gene therapy; chromosome identification; tissue typing.
XX OS Homo sapiens.
XX PN US2003027277-A1.
XX PD 06-FEB-2003.
XX PF 21-JUN-2002; 2002US-00176985.
XX PR 18-SEP-1997; 97US-0059263P.
XX PR 18-SEP-1997; 97US-0059266P.
XX PR 17-OCT-1997; 97US-0062250P.
XX PR 21-OCT-1997; 97US-0063486P.
XX PR 24-OCT-1997; 97US-00631120P.
XX PR 28-OCT-1997; 97US-0063121P.
XX PR 28-OCT-1997; 97US-0063540P.
XX PR 28-OCT-1997; 97US-0063541P.
XX PR 28-OCT-1997; 97US-0063544P.
XX PR 28-OCT-1997; 97US-0063564P.
XX PR 29-OCT-1997; 97US-0063734P.
XX PR 31-OCT-1997; 97US-0063870P.
XX PR 31-OCT-1997; 97US-0064103P.
XX PR 13-NOV-1997; 97US-0065311P.
XX PR 21-NOV-1997; 97US-00661120P.
XX PR 24-NOV-1997; 97US-0066466P.
XX PR 24-NOV-1997; 97US-0066772P.
XX PR 11-DEC-1997; 97US-0069335P.
XX PR 12-DEC-1997; 97US-0069425P.
XX PR 17-DEC-1997; 97US-0069870P.
XX PR 18-DEC-1997; 97US-0068017P.
XX PR 10-MAR-1998; 98US-0077450P.
XX PR 11-MAR-1998; 98US-0077632P.
XX PR 11-MAR-1998; 98US-0077649P.
XX PR 20-MAR-1998; 98US-0078886P.
XX PR 20-MAR-1998; 98US-0078939P.
XX PR 27-MAR-1998; 98US-0079664P.
XX PR 27-MAR-1998; 98US-0079786P.
XX PR 31-MAR-1998; 98US-0080107P.
XX PR 31-MAR-1998; 98US-0080194P.
XX PR 01-APR-1998; 98US-0080327P.
XX PR 01-APR-1998; 98US-0080333P.
XX PR 08-APR-1998; 98US-0081049P.
XX PR 08-APR-1998; 98US-0081070P.
XX PR 09-APR-1998; 98US-0081195P.
XX PR 15-APR-1998; 98US-0081838P.
XX PR 21-APR-1998; 98US-0082568P.
XX PR 21-APR-1998; 98US-0082569P.
XX PR 22-APR-1998; 98US-0082704P.
XX PR 22-APR-1998; 98US-0082797P.
XX PR 28-APR-1998; 98US-0083322P.
XX PR 29-APR-1998; 98US-0083495P.
XX PR 29-APR-1998; 98US-0083496P.
XX PR 29-APR-1998; 98US-0083499P.
XX PR 29-APR-1998; 98US-0083559P.
XX PR 05-MAY-1998; 98US-0084366P.
XX PR 06-MAY-1998; 98US-0084414P.
XX PR 07-MAY-1998; 98US-0084639P.
XX PR 07-MAY-1998; 98US-0084640P.
XX PR 07-MAY-1998; 98US-0084643P.
XX PR 15-MAY-1998; 98US-0085579P.
XX PR 15-MAY-1998; 98US-0085580P.
XX PR 15-MAY-1998; 98US-0085582P.
XX PR 15-MAY-1998; 98US-0085700P.
XX PR 18-MAY-1998; 98US-0086023P.
XX PR 22-MAY-1998; 98US-0086392P.
XX PR 22-MAY-1998; 98US-0086486P.
XX PR 28-MAY-1998; 98US-0087098P.
XX PR 28-MAY-1998; 98US-0087208P.
XX PR 02-JUN-1998; 98US-0087609P.
XX PR 02-JUN-1998; 98US-0087759P.
XX PR 03-JUN-1998; 98US-0087827P.
XX PR 04-JUN-1998; 98US-0088025P.
XX PR 04-JUN-1998; 98US-0088028P.
XX PR 04-JUN-1998; 98US-0088029P.
XX PR 04-JUN-1998; 98US-0088033P.
XX PR 04-JUN-1998; 98US-0088326P.
XX PR 05-JUN-1998; 98US-0088167P.
XX PR 05-JUN-1998; 98US-0088202P.
XX PR 05-JUN-1998; 98US-0088212P.
XX PR 05-JUN-1998; 98US-0088217P.
XX PR 09-JUN-1998; 98US-0088655P.
XX PR 10-JUN-1998; 98US-0088722P.
XX PR 10-JUN-1998; 98US-0088738P.
XX PR 10-JUN-1998; 98US-0088740P.
XX PR 10-JUN-1998; 98US-0088811P.
XX PR 10-JUN-1998; 98US-0088824P.
XX PR 10-JUN-1998; 98US-0088825P.
XX PR 10-JUN-1998; 98US-0088826P.
XX PR 11-JUN-1998; 98US-0088861P.
XX PR 11-JUN-1998; 98US-0088863P.
XX PR 11-JUN-1998; 98US-0088876P.
XX PR 12-JUN-1998; 98US-0089090P.
XX PR 12-JUN-1998; 98US-0089105P.
XX PR 16-JUN-1998; 98US-0089512P.
XX PR 16-JUN-1998; 98US-0089514P.
XX PR 17-JUN-1998; 98US-0089538P.
XX PR 17-JUN-1998; 98US-0089598P.
XX PR 17-JUN-1998; 98US-0089653P.
XX PR 18-JUN-1998; 98US-0089908P.
XX PR 19-JUN-1998; 98US-0089952P.
XX PR 22-JUN-1998; 98US-0090246P.
XX PR 22-JUN-1998; 98US-0090252P.
XX PR 22-JUN-1998; 98US-0090254P.
XX PR 24-JUN-1998; 98US-0090429P.
XX PR 24-JUN-1998; 98US-0090435P.
XX PR 24-JUN-1998; 98US-0090444P.
XX PR 24-JUN-1998; 98US-0090461P.
XX PR 24-JUN-1998; 98US-0090535P.
XX PR 24-JUN-1998; 98US-0090540P.
XX PR 25-JUN-1998; 98US-0090676P.
XX PR 25-JUN-1998; 98US-0090678P.
XX PR 25-JUN-1998; 98US-0090688P.
XX PR 25-JUN-1998; 98US-0090690P.
XX PR 25-JUN-1998; 98US-0090694P.
XX PR 25-JUN-1998; 98US-0090695P.
XX PR 25-JUN-1998; 98US-0090696P.
XX PR 26-JUN-1998; 98US-00105413.
XX PR 26-JUN-1998; 98US-0090862P.
XX PR 26-JUN-1998; 98US-0090863P.
XX PR 26-JUN-1998; 98US-0091010P.
XX PR 01-JUL-1998; 98US-0091359P.
XX PR 01-JUL-1998; 98US-0091544P.
XX PR 02-JUL-1998; 98US-0091478P.
XX PR 02-JUL-1998; 98US-0091486P.
XX PR 02-JUL-1998; 98US-0091626P.
XX PR 02-JUL-1998; 98US-0091628P.
XX PR 02-JUL-1998; 98US-0091628P.
XX PR 02-JUL-1998; 98US-0091632P.
XX PR 24-JUL-1998; 98US-0094006P.
XX PR 04-AUG-1998; 98US-0095282P.
XX PR 10-AUG-1998; 98US-0095998P.
XX PR 10-AUG-1998; 98US-0096012P.
```

| | | | | | | |
|----|--------------|----------------|----|-----|--|-----|
| PR | 17-AUG-1998; | 98US-0096757P. | Qy | 146 | NLMIDIQKDTAVRGEIEVNCNTAMASKPATIRWFKGNTLKGKSEVEEWSDMYTVTSQ | 205 |
| PR | 17-AUG-1998; | 98US-0096766P. | Db | 144 | | |
| PR | 17-AUG-1998; | 98US-0096867P. | | | | |
| PR | 17-AUG-1998; | 98US-0096891P. | | | | |
| PR | 17-AUG-1998; | 98US-0096897P. | Qy | 206 | MLXVHKEDDGPVVCQVEHPAVTGNLQTOQRYLEVQYKPKQVHIQMTYPLQGLTREGDALEL | 265 |
| PR | 18-AUG-1998; | 98US-0096949P. | Db | 204 | | |
| PR | 18-AUG-1998; | 98US-0096959P. | | | | |
| PR | 18-AUG-1998; | 98US-0097022P. | Qy | 266 | TCEAIGKQPQPMVTVWRVDDMPQHAVLSPNLFINNLANKTNGTYRCEASNIVGKAHSD | 325 |
| PR | 26-AUG-1998; | 98US-0097952P. | Db | 264 | | |
| PR | 26-AUG-1998; | 98US-0097954P. | | | | |
| PR | 26-AUG-1998; | 98US-0097955P. | Qy | 326 | YMLVYVDPPTTIPPPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTITDTSRAGEEGSIRAVDHAVIGGVAVVV | 385 |
| PR | 26-AUG-1998; | 98US-0097971P. | Db | 324 | | |
| PR | 26-AUG-1998; | 98US-0097974P. | | | | |
| PR | 26-AUG-1998; | 98US-0098014P. | Qy | 386 | FAMLCLLIILGRYFARHKGTYFTHEAKGADDAADADATAIINAEQQNNSEKKEYFI | 442 |
| PR | 01-SEP-1998; | 98US-009816P. | Db | 384 | | |
| PR | 01-SEP-1998; | 98US-0098723P. | | | | |
| PR | 02-SEP-1998; | 98US-0098803P. | | | | |
| PR | 02-SEP-1998; | 98US-0098821P. | | | | |
| PR | 02-SEP-1998; | 98US-0098843P. | | | | |
| PR | 09-SEP-1998; | 98US-0099602P. | | | | |
| PR | 10-SEP-1998; | 98US-0099741P. | | | | |
| PR | 10-SEP-1998; | 98US-0099754P. | | | | |
| PR | 10-SEP-1998; | 98US-0099754P. | | | | |
| PR | 10-SEP-1998; | 98US-0099763P. | | | | |
| PR | 10-SEP-1998; | 98US-0099812P. | | | | |
| PR | 15-SEP-1998; | 98US-0100388P. | | | | |
| PR | 16-SEP-1998; | 98US-0100662P. | | | | |
| PR | 16-SEP-1998; | 98US-0100664P. | | | | |
| PR | 16-SEP-1998; | 98US-0101751P. | | | | |
| PR | 16-SEP-1998; | 98US-0101751P. | | | | |
| PR | 17-SEP-1998; | 98US-0100683P. | | | | |
| PR | 17-SEP-1998; | 98US-0100684P. | | | | |
| PR | 17-SEP-1998; | 98US-0100919P. | | | | |
| PR | 17-SEP-1998; | 98US-0100930P. | | | | |
| PR | 18-SEP-1998; | 98US-0100849P. | | | | |
| PR | 18-SEP-1998; | 98US-0101014P. | | | | |
| PR | 18-SEP-1998; | 98US-0101068P. | | | | |
| PR | 23-SEP-1998; | 98US-0101471P. | | | | |
| PR | 23-SEP-1998; | 98US-0101472P. | | | | |
| PR | 23-SEP-1998; | 98US-0101475P. | | | | |
| PR | 23-SEP-1998; | 98US-0101477P. | | | | |
| PR | 23-SEP-1998; | 98US-0101738P. | | | | |
| PR | 24-SEP-1998; | 98US-0101739P. | | | | |
| PR | 24-SEP-1998; | 98US-0101743P. | | | | |
| PR | 24-SEP-1998; | 98US-0101922P. | | | | |
| PR | 25-SEP-1998; | 98US-0101786P. | | | | |
| PR | 25-SEP-1998; | 98US-010207P. | | | | |
| PR | 29-SEP-1998; | 98US-0102240P. | | | | |
| PR | 29-SEP-1998; | 98US-0102330P. | | | | |
| PR | 29-SEP-1998; | 98US-0102331P. | | | | |
| PR | 30-SEP-1998; | 98US-0102487P. | | | | |
| PR | 30-SEP-1998; | 98US-0102571P. | | | | |
| PR | 30-SEP-1998; | 98US-0102571P. | | | | |
| PR | 01-OCT-1998; | 98US-0102684P. | | | | |
| PR | 01-OCT-1998; | 98US-0102687P. | | | | |
| PR | 02-OCT-1998; | 98US-0102965P. | | | | |
| PR | 06-OCT-1998; | 98US-0103258P. | | | | |
| PR | 06-OCT-1998; | 98US-0103449P. | | | | |
| PR | 07-OCT-1998; | 98US-01068978. | | | | |
| PR | 07-OCT-1998; | 98US-0103395P. | | | | |
| PR | 07-OCT-1998; | 98US-0103401P. | | | | |

Query Match 94.3%; Score 417; DB 6; Length 440;

Best Local Similarity 100.0%; Pred. No. 0;

Mismatches 0; Conservative 0; Indels 0; Gaps 0;

| | | | |
|----|----|---|-----|
| Qy | 26 | LRLLLLFSAAALPTGDGNLFKQVTVIEGEVATISQCVNKSDDSVIQLLNPNRQTIY | 85 |
| Db | 24 | LRLLLLFSAAALPTGDGNLFKQVTVIEGEVATISQCVNKSDDSVIQLLNPNRQTIY | 83 |
| Qy | 86 | FRDPRPLKDSRFQLNFSSELKSLVSLTNVSTISDEGRYFCOLYTDPPQESYTTITVLVPPR | 145 |
| Db | 84 | FRDPRPLKDSRFQLNFSSELKSLVSLTNVSTISDEGRYFCOLYTDPPQESYTTITVLVPPR | 143 |

RESULT 33

ABU89368

ID ABU89368 standard; protein; 440 AA.

XX AC ABU89368;

XX DT 09-JUL-2003 (first entry)

XX DE Human PRO polypeptide #17.

XX KW Human; PRO polypeptide; secreted protein; transmembrane protein;

XX KW chromosome mapping; gene mapping; tumour; adrenal; lung; colon; breast;

XX KW prostate; rectal; cervical; liver; cancer; TNF-alpha;

XX KW tumour necrosis factor-alpha; proliferation; differentiation;

XX KW chondrocyte cell; bone disorder; cartilage disorder; sports injury;

XX KW arthritis; cytostatic; antiarthritic; osteopathic.

OS Homo sapiens.

XX US2003036141-A1.

XX PD 20-FEB-2003.

XX PF 01-JUL-2002; 2002US-00187597.

XX PR 18-SEP-1997; 97US-0059263P.

XX PR 18-SEP-1997; 97US-0059266P.

XX PR 17-OCT-1997; 97US-0062250P.

XX PR 21-OCT-1997; 97US-0063486P.

XX PR 24-OCT-1997; 97US-0063120P.

XX PR 24-OCT-1997; 97US-0063121P.

XX PR 28-OCT-1997; 97US-0063340P.

XX PR 28-OCT-1997; 97US-0063541P.

XX PR 28-OCT-1997; 97US-0063544P.

XX PR 28-OCT-1997; 97US-0063564P.

XX PR 29-OCT-1997; 97US-0063734P.

XX PR 31-OCT-1997; 97US-0063870P.

XX PR 31-OCT-1997; 97US-0064103P.

XX PR 13-NOV-1997; 97US-0065311P.

XX PR 21-NOV-1997; 97US-0066120P.

XX PR 24-NOV-1997; 97US-0066466P.

XX PR 24-NOV-1997; 97US-0066772P.

XX PR 11-DEC-1997; 97US-0069335P.

XX PR 12-DEC-1997; 97US-0069425P.

XX PR 17-DEC-1997; 97US-0069870P.

XX PR 18-DEC-1997; 97US-0068017P.

XX PR 10-MAR-1998; 98US-0077450P.

XX PR 11-MAR-1998; 98US-0077632P.

XX PR 11-MAR-1998; 98US-0077649P.

XX PR 20-MAR-1998; 98US-0078886P.

XX PR 20-MAR-1998; 98US-0078939P.

XX PR 27-MAR-1998; 98US-0079664P.

PR 27-MAR-1998; 98US-0079786P.
PR 31-MAR-1998; 98US-0080107P.
PR 31-MAR-1998; 98US-0080194P.
PR 01-APR-1998; 98US-0080327P.
PR 01-APR-1998; 98US-0080333P.
PR 08-APR-1998; 98US-0081070P.
PR 08-APR-1998; 98US-0081195P.
PR 09-APR-1998; 98US-0081838P.
PR 15-APR-1998; 98US-0082568P.
PR 21-APR-1998; 98US-0082569P.
PR 21-APR-1998; 98US-0082704P.
PR 22-APR-1998; 98US-0082797P.
PR 28-APR-1998; 98US-0083322P.
PR 28-APR-1998; 98US-0083495P.
PR 29-APR-1998; 98US-0083496P.
PR 29-APR-1998; 98US-0083499P.
PR 29-APR-1998; 98US-0083559P.
PR 05-MAY-1998; 98US-0084366P.
PR 06-MAY-1998; 98US-0084414P.
PR 07-MAY-1998; 98US-0084639P.
PR 07-MAY-1998; 98US-0084640P.
PR 07-MAY-1998; 98US-0084643P.
PR 15-MAY-1998; 98US-0085579P.
PR 15-MAY-1998; 98US-0085580P.
PR 15-MAY-1998; 98US-0085582P.
PR 15-MAY-1998; 98US-0085700P.
PR 18-MAY-1998; 98US-0086023P.
PR 22-MAY-1998; 98US-0086392P.
PR 22-MAY-1998; 98US-0086486P.
PR 28-MAY-1998; 98US-0087098P.
PR 28-MAY-1998; 98US-0087208P.
PR 02-JUN-1998; 98US-0087609P.
PR 02-JUN-1998; 98US-0087759P.
PR 03-JUN-1998; 98US-0087827P.
PR 04-JUN-1998; 98US-0088025P.
PR 04-JUN-1998; 98US-0088038P.
PR 04-JUN-1998; 98US-0088029P.
PR 04-JUN-1998; 98US-0088033P.
PR 04-JUN-1998; 98US-0088326P.
PR 05-JUN-1998; 98US-0088167P.
PR 05-JUN-1998; 98US-0088202P.
PR 05-JUN-1998; 98US-0088212P.
PR 05-JUN-1998; 98US-0088217P.
PR 09-JUN-1998; 98US-0088655P.
PR 10-JUN-1998; 98US-0088722P.
PR 10-JUN-1998; 98US-0088738P.
PR 10-JUN-1998; 98US-0088740P.
PR 10-JUN-1998; 98US-0088811P.
PR 10-JUN-1998; 98US-0088824P.
PR 10-JUN-1998; 98US-0088825P.
PR 10-JUN-1998; 98US-0088836P.
PR 11-JUN-1998; 98US-0088861P.
PR 11-JUN-1998; 98US-0088863P.
PR 11-JUN-1998; 98US-0088876P.
PR 12-JUN-1998; 98US-0089090P.
PR 12-JUN-1998; 98US-0089105P.
PR 16-JUN-1998; 98US-0089512P.
PR 16-JUN-1998; 98US-0089514P.
PR 17-JUN-1998; 98US-0089538P.
PR 17-JUN-1998; 98US-0089598P.
PR 17-JUN-1998; 98US-0089653P.
PR 18-JUN-1998; 98US-0089908P.
PR 19-JUN-1998; 98US-0089952P.
PR 22-JUN-1998; 98US-0090246P.
PR 22-JUN-1998; 98US-0090252P.
PR 22-JUN-1998; 98US-0090254P.
PR 24-JUN-1998; 98US-0090429P.
PR 24-JUN-1998; 98US-0090435P.
PR 24-JUN-1998; 98US-0090444P.
PR 24-JUN-1998; 98US-0090461P.
PR 24-JUN-1998; 98US-0090535P.
PR 24-JUN-1998; 98US-0090540P.
PR 25-JUN-1998; 98US-0090676P.
PR 25-JUN-1998; 98US-0090678P.
PR 25-JUN-1998; 98US-0090688P.
PR 25-JUN-1998; 98US-0090690P.
PR 25-JUN-1998; 98US-0090694P.
PR 25-JUN-1998; 98US-0090695P.
PR 25-JUN-1998; 98US-0090696P.
PR 26-JUN-1998; 98US-00105413.
PR 26-JUN-1998; 98US-0090862P.
PR 26-JUN-1998; 98US-0090863P.
PR 26-JUN-1998; 98US-0091010P.
PR 01-JUL-1998; 98US-0091359P.
PR 01-JUL-1998; 98US-0091544P.
PR 02-JUL-1998; 98US-0091478P.
PR 02-JUL-1998; 98US-0091486P.
PR 02-JUL-1998; 98US-0091626P.
PR 02-JUL-1998; 98US-0091628P.
PR 02-JUL-1998; 98US-0091632P.
PR 24-JUL-1998; 98US-0094006P.
PR 04-AUG-1998; 98US-0095282P.
PR 10-AUG-1998; 98US-0095998P.
PR 10-AUG-1998; 98US-0096012P.
PR 17-AUG-1998; 98US-0096757P.
PR 17-AUG-1998; 98US-0096766P.
PR 17-AUG-1998; 98US-0096867P.
PR 17-AUG-1998; 98US-0096891P.
PR 17-AUG-1998; 98US-0096897P.
PR 18-AUG-1998; 98US-0096949P.
PR 18-AUG-1998; 98US-0096959P.
PR 18-AUG-1998; 98US-0097022P.
PR 26-AUG-1998; 98US-0097952P.
PR 26-AUG-1998; 98US-0097954P.
PR 26-AUG-1998; 98US-0097955P.
PR 26-AUG-1998; 98US-0097971P.
PR 26-AUG-1998; 98US-0097974P.
PR 26-AUG-1998; 98US-0098014P.
PR 01-SEP-1998; 98US-0098716P.
PR 01-SEP-1998; 98US-0098723P.
PR 02-SEP-1998; 98US-0098803P.
PR 02-SEP-1998; 98US-0098821P.
PR 02-SEP-1998; 98US-0098843P.
PR 09-SEP-1998; 98US-0099602P.
PR 10-SEP-1998; 98US-0099741P.
PR 10-SEP-1998; 98US-0099754P.
PR 10-SEP-1998; 98US-0099763P.
PR 15-SEP-1998; 98US-0100388P.
PR 16-SEP-1998; 98US-0100662P.
PR 16-SEP-1998; 98US-0100664P.
PR 16-SEP-1998; 98US-0101751P.
PR 16-SEP-1998; 98WO-US019330.
PR 17-SEP-1998; 98US-0100683P.
PR 17-SEP-1998; 98US-0100684P.
PR 17-SEP-1998; 98US-0100919P.
PR 17-SEP-1998; 98US-0100930P.
PR 18-SEP-1998; 98US-0100849P.
PR 18-SEP-1998; 98US-0101014P.
PR 18-SEP-1998; 98US-0101068P.
PR 23-SEP-1998; 98US-0101471P.
PR 23-SEP-1998; 98US-0101472P.
PR 23-SEP-1998; 98US-0101475P.
PR 23-SEP-1998; 98US-0101477P.
PR 24-SEP-1998; 98US-0101738P.
PR 24-SEP-1998; 98US-0101739P.
PR 24-SEP-1998; 98US-0101743P.
PR 24-SEP-1998; 98US-0101922P.
PR 29-SEP-1998; 98US-0101786P.
PR 29-SEP-1998; 98US-0102207P.
PR 29-SEP-1998; 98US-0102240P.
PR 29-SEP-1998; 98US-0102330P.
PR 29-SEP-1998; 98US-0102331P.
PR 30-SEP-1998; 98US-0102487P.
PR 30-SEP-1998; 98US-0102570P.

CC produce PRO proteins), a chimeric molecule comprising the PRO
 CC polypeptide fused to a heterologous amino acid sequence, an anti-PRO
 CC antibody, a method for stimulating the release of tumor necrosis factor
 CC alpha (TNF-alpha) from human blood (by contacting the blood with PRO1079,
 CC PRO827, PRO791, PRO1131, PRO1316, PRO1183, PRO1343, PRO1760, PRO1567 or
 CC PRO4333), a method for stimulating the proliferation or differentiation
 CC of chondrocyte cells by contacting the cells with a PRO6029 polypeptide,
 CC a method for detecting the presence of tumour in a mammal and an
 CC oligonucleotide probe derived from any of the nucleotide sequences cited
 CC above. The PRO polypeptide or anti-PRO antibody is useful for preparing a
 CC medicament for treating a condition that is responsive to the PRO
 CC polypeptide or anti-PRO antibody. The PRO nucleotide sequences are useful
 CC as hybridisation probes in chromosome and gene mapping, or in generating
 CC antisense RNA and DNA. PRO nucleic acids are also useful in preparing PRO
 CC polypeptides, in assays to identify other proteins or molecules involved
 CC in a binding reaction, to generate transgenic animals or knockout
 CC animals, which in turn are useful in the development and screening of
 CC therapeutically useful reagents, for chromosome identification, and
 CC tissue typing. The PRO polypeptides and nucleic acid molecules are also
 CC useful for detecting the presence of a tumour in a mammal, stimulating
 CC proliferation or differentiation of chondrocyte cells, stimulating the
 CC release of tumour necrosis factor-alpha from human blood, in gene
 CC therapy, or as molecular weight markers for protein electrophoresis
 CC purposes. The anti-PRO antibodies may be used in diagnostic assays for
 CC PRO, or for the affinity purification of PRO from recombinant cell
 CC culture or natural sources. The present sequence represents a PRO protein
 XX
 SQ Sequence 440 AA;

Query Match 94.3%; Score 417; DB 6; Length 440;
 Best Local Similarity 100.0%; Pred. No. 0;
 Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 26 LRLLLLFSAALIPDGGQNLFTKDVTVIEGEVATISQVKNKSDSDSVIQLLNPNRQTIY 85
 Db LRLLLLFSAALIPDGGQNLFTKDVTVIEGEVATISQVKNKSDSDSVIQLLNPNRQTIY 83

Qy 86 FRDPRPLKDSRFQLLNFSSELKVLNVSISDEGRYFCQLYTPDPQESYTTITVLVPPR 145
 Db FRDPRPLKDSRFQLLNFSSELKVLNVSISDEGRYFCQLYTPDPQESYTTITVLVPPR 143

Qy 146 NLMDIDQKDTAVEGEELEVNTCTAMASKPATIRFKGNTELKSKSEVEEWSDMYTVTSOL 205
 Db NLMDIDQKDTAVEGEELEVNTCTAMASKPATIRFKGNTELKSKSEVEEWSDMYTVTSOL 203

Qy 206 MLKVHKKDDGVPVICQVEHPAVTGNLQRYLEYQYKQPQVHIQMTYPLQGLTREGDALEL 265
 Db MLKVHKKDDGVPVICQVEHPAVTGNLQRYLEYQYKQPQVHIQMTYPLQGLTREGDALEL 263

Qy 266 TCEAIGKQPQVMTWVRVDDDEMPQHAVLSGPNLFINNLKNTDNGTYRCEASNIVGKAHSD 325
 Db TCEAIGKQPQVMTWVRVDDDEMPQHAVLSGPNLFINNLKNTDNGTYRCEASNIVGKAHSD 323

Qy 326 YMLVYDPPPTIPPTPTTT 385
 Db YMLVYDPPPTIPPTPTTT 383

Qy 386 FAMILCLLIILGRYFARHKGTGYTFHEAKGADDAADTAIINAEQQNNSEKKEYFI 442
 Db FAMILCLLIILGRYFARHKGTGYTFHEAKGADDAADTAIINAEQQNNSEKKEYFI 440

RESULT 35
 ABU67422

ID ABU67422 standard; protein; 440 AA.

XX AC ABU67422;

XX DT 29-MAY-2003 (first entry)

XX DE Human secreted/transmembrane protein (PRO) #17.

XX KW Human; secreted and transmembrane protein; PRO; TNF-alpha;

KW tumour necrosis factor alpha; chondrocyte cell; tumour; gene therapy;
 XX tissue typing.

XX Homo sapiens.

XX US2003036162-A1.

XX PD 20-FEB-2003.

XX PF 12-JUL-2002; 2002US-00194423.

XX PR 26-JUN-1998; 98US-00105413.

XX PR 16-SEP-1998; 98WO-US019330.

XX PR 07-OCT-1998; 98US-00168978.

XX PR 07-OCT-1998; 98WO-US021141.

XX PR 06-NOV-1998; 98US-00187368.

XX PR 01-DEC-1998; 98WO-US025108.

XX PR 07-DEC-1998; 98US-00202054.

XX PR 03-MAR-1999; 98US-00254311.

XX PR 08-MAR-1999; 98WO-US005028.

XX PR 14-MAY-1999; 99US-00311832.

XX PR 14-MAY-1999; 99WO-US010733.

XX PR 02-JUN-1999; 99US-0012252.

XX PR 25-AUG-1999; 99US-00380137.

XX PR 25-AUG-1999; 99US-00380138.

XX PR 25-AUG-1999; 99US-00380139.

XX PR 25-AUG-1999; 99WO-US0380142.

XX PR 01-SEP-1999; 99WO-US020111.

XX PR 15-SEP-1999; 99US-00403297.

XX PR 18-OCT-1999; 99US-00423844.

XX PR 12-NOV-1999; 99WO-US028301.

XX PR 02-DEC-1999; 99WO-US028551.

XX PR 30-DEC-1999; 99WO-US031274.

XX PR 05-JAN-2000; 2000WO-US000219.

XX PR 18-FEB-2000; 2000WO-US004341.

XX PR 18-FEB-2000; 2000WO-US004342.

XX PR 24-FEB-2000; 2000WO-US004414.

XX PR 24-FEB-2000; 2000WO-US005004.

XX PR 01-MAR-2000; 2000WO-US005501.

XX PR 02-MAR-2000; 2000WO-US005841.

XX PR 15-MAR-2000; 2000WO-US006884.

XX PR 30-MAR-2000; 2000WO-US008439.

XX PR 17-MAY-2000; 2000WO-US013705.

XX PR 22-MAY-2000; 2000WO-US014042.

XX PR 30-MAY-2000; 2000WO-US014941.

XX PR 02-JUN-2000; 2000WO-US015264.

XX PR 28-JUL-2000; 2000WO-US020710.

XX PR 22-AUG-2000; 2000US-00644848.

XX PR 24-AUG-2000; 2000WO-US023328.

XX PR 18-SEP-2000; 2000US-0066610.

XX PR 18-SEP-2000; 2000US-00666350.

XX PR 08-NOV-2000; 2000US-00709238.

XX PR 08-NOV-2000; 2000WO-US030952.

XX PR 01-DEC-2000; 2000WO-US032678.

XX PR 20-DEC-2000; 2000US-00747259.

XX PR 28-FEB-2001; 2001WO-US034956.

XX PR 22-MAR-2001; 2001US-00816744.

XX PR 10-MAY-2001; 2001US-00854208.

XX PR 10-MAY-2001; 2001US-00854280.

XX PR 25-MAY-2001; 2001US-00866028.

XX PR 01-JUN-2001; 2001WO-US017800.

XX PR 05-JUN-2001; 2001US-00874503.

XX PR 20-JUN-2001; 2001WO-US019692.

XX PR 29-JUN-2001; 2001WO-US021066.

XX PR 09-JUL-2001; 2001WO-US021735.

XX PR 18-JUL-2001; 2001US-00908827.

XX PR 30-JUL-2001; 2001US-00918585.

XX PR 06-AUG-2001; 2001US-00924419.

XX PR 13-AUG-2001; 2001US-00929404.

XX PR 16-AUG-2001; 2001US-00931836.

XX PR 28-AUG-2001; 2001US-00941992.

PR 29-AUG-2001; 2001WO-US027099.
PR 04-SEP-2001; 2001US-00946374.
PR 15-JAN-2002; 2002US-00052586.
XX (GETH) GENENTECH INC.
PA Baker KP, Chen J, Desnoyers L, Goddard A, Godowski PJ, Gurney AL;
PI Pan J, Smith V, Watanabe CK, Wood WI, Zhang Z;
XX WPI; 2003-332039/31.
DR N-PSDB; ACA05716.
XX New secreted and transmembrane PRO polypeptides and nucleic acids, useful
PT in gene therapy, in chromosome and gene mapping, as chromosome markers,
PT in tissue typing, and in chromosome identification.
XX Claim 11; Fig 34; 706pp; English.
XX The invention discloses human nucleic acids encoding secreted and
CC transmembrane (PRO) polypeptides. Also disclosed is an antibody that
CC specifically binds to the PRO polypeptide, a method for stimulating the
CC release of tumour necrosis factor alpha (TNF-alpha) from human blood by
CC contacting the blood a PRO polypeptide, a method for stimulating the
CC proliferation or differentiation of chondrocyte cells by contacting the
CC cells with a PRO polypeptide, a method for detecting the presence of a
CC tumour in a mammal and an oligonucleotide probe derived from any of the
CC PRO nucleotide sequences. The nucleotide sequences are useful as probes,
CC in chromosome and gene mapping, in generating antisense RNA and DNA, in
CC preparing PRO polypeptides by recombinant techniques and in gene therapy
CC (e.g. for replacement of defective gene). The PRO polypeptides are useful
CC as molecular weight markers for protein electrophoresis purposes, for
CC chromosome identification, as chromosome markers, as therapeutic agents,
CC for stimulating the release of TNF-alpha from human blood, for
CC stimulating the proliferation or differentiation of chondrocytes and
CC detecting the presence of a tumour. The PRO polypeptides and nucleic
CC acids may also be used diagnostically for tissue typing. The sequences
CC presented in ABU67406-ABU67710 are the PRO polypeptides of the invention
XX Sequence 440 AA;
Qy Query Match 94.3%; Score 417; DB 6; Length 440;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
26 LRLLLLSAALPTGQNLFTKDVTVIEGEVATISCVNKSDDSVIQLLPNRQTIY 85
24 LRLLLLSAALPTGQNLFTKDVTVIEGEVATISCVNKSDDSVIQLLPNRQTIY 83
86 FRDPRPLKDSRFQNLNFSSELKVSLSNVSISDEGRYFCQLYTDPPQESYTTITVLVPPR 145
84 FRDPRPLKDSRFQNLNFSSELKVSLSNVSISDEGRYFCQLYTDPPQESYTTITVLVPPR 143
146 NLMTIDIKQDTAVEGEEIEVNCATAMASKPATIRWFKGNTELKKGSEVEESDMYTVTSOL 205
144 NLMTIDIKQDTAVEGEEIEVNCATAMASKPATIRWFKGNTELKKGSEVEESDMYTVTSOL 203
206 MLKVHKEDGVPVLCQVEHPAVTGNLQTRVLEYQYKPOVHIQMTYPLQGLTREGDALEL 265
204 MLKVHKEDGVPVLCQVEHPAVTGNLQTRVLEYQYKPOVHIQMTYPLQGLTREGDALEL 263
266 TCEAIGKQPQVMVTVWRVDDMPQHAVLSGNLFINLNKTDNGTYRCEASNIVGKAHSD 325
264 TCEAIGKQPQVMVTVWRVDDMPQHAVLSGNLFINLNKTDNGTYRCEASNIVGKAHSD 323
326 YMLVYDPPTTIPPTTT 385
324 YMLVYDPPTTIPPTTT 383
386 FAMILCLLIILGRYPARKGTFTFEAKGADDAADTAIINAEQQNNSEKKEYFI 442
384 FAMILCLLIILGRYPARKGTFTFEAKGADDAADTAIINAEQQNNSEKKEYFI 440

RESULT 36
ABU80450
ID ABU80450 standard; protein; 440 AA.
XX
AC ABU80450;
XX
DT 23-JUN-2003 (first entry)
XX
DE Human PRO protein #17.
XX
KW Human; tumour; adrenal; lung; colon; breast; prostate; rectal; cervical;
KW liver; PRO; gene therapy.
XX
OS Homo sapiens.
XX
PN US2003036137-A1.
XX
PD 20-FEB-2003.
XX
XX 27-JUN-2002; 2002US-00184640.
XX
PR 26-JUN-1998; 98US-00105413.
PR 16-SEP-1998; 98WO-US019330.
PR 07-OCT-1998; 98US-00168978.
PR 07-OCT-1998; 98WO-US021141.
PR 06-NOV-1998; 98US-00187368.
PR 01-DEC-1998; 98WO-US025108.
PR 07-DEC-1998; 98US-00202054.
PR 03-MAR-1999; 99US-00254311.
PR 08-MAR-1999; 99WO-US005028.
PR 14-MAY-1999; 99US-00311832.
PR 14-MAY-1999; 99WO-US010733.
PR 02-JUN-1999; 99WO-US012252.
PR 25-AUG-1999; 99US-00380137.
PR 25-AUG-1999; 99US-00380138.
PR 25-AUG-1999; 99US-00380139.
PR 25-AUG-1999; 99US-00380142.
PR 01-SEP-1999; 99WO-US020111.
PR 15-SEP-1999; 99WO-US021090.
PR 18-OCT-1999; 98US-00403297.
PR 12-NOV-1999; 99US-00423844.
PR 01-DEC-1999; 99WO-US028301.
PR 02-DEC-1999; 99WO-US028551.
PR 30-DEC-1999; 99WO-US031274.
PR 05-JAN-2000; 2000WO-US000219.
PR 18-FEB-2000; 2000WO-US004341.
PR 22-FEB-2000; 2000WO-US004342.
PR 22-FEB-2000; 2000WO-US004414.
PR 24-FEB-2000; 2000WO-US005004.
PR 01-MAR-2000; 2000WO-US005601.
PR 02-MAR-2000; 2000WO-US005841.
PR 15-MAR-2000; 2000WO-US005884.
PR 30-MAR-2000; 2000WO-US008439.
PR 17-MAY-2000; 2000WO-US013705.
PR 22-MAY-2000; 2000WO-US014042.
PR 30-MAY-2000; 2000WO-US014941.
PR 02-JUN-2000; 2000WO-US015264.
PR 28-JUL-2000; 2000WO-US020710.
PR 22-AUG-2000; 2000US-00644848.
PR 24-AUG-2000; 2000WO-US023328.
PR 18-SEP-2000; 2000US-00664610.
PR 08-NOV-2000; 2000US-00665350.
PR 08-NOV-2000; 2000US-00709238.
PR 08-NOV-2000; 2000WO-US030952.
PR 01-DEC-2000; 2000WO-US032678.
PR 20-DEC-2000; 2000US-00747259.
PR 20-DEC-2000; 2000WO-US034956.
PR 28-FEB-2001; 2001WO-US006520.
PR 22-MAR-2001; 2001US-00816744.
PR 10-MAY-2001; 2001US-00854208.
PR 10-MAY-2001; 2001US-00854280.
PR 25-MAY-2001; 2001US-00866028.
PR 01-JUN-2001; 2001WO-US017800.

PR 05-JUN-2001; 2001US-00874503.
PR 20-JUN-2001; 2001WO-US019692.
PR 29-JUN-2001; 2001WO-US021066.
PR 09-JUL-2001; 2001WO-US021735.
PR 18-JUL-2001; 2001US-00908827.
PR 30-JUL-2001; 2001US-00918585.
PR 06-AUG-2001; 2001US-00924419.
PR 13-AUG-2001; 2001US-00929404.
PR 16-AUG-2001; 2001US-00931836.
PR 28-AUG-2001; 2001US-00941992.
PR 29-AUG-2001; 2001WO-US027099.
PR 04-SEP-2001; 2001US-00946374.
PR 15-JAN-2002; 2002US-00052586.
XX
PA (GETH) GENENTECH INC.
XX
XX Baker KP, Chen J, Desnoyers L, Goddard A, Godowski PJ, Gurney AL;
PI Pan J, Smith V, Watanabe CK, Wood WI, Zhang Z;
XX
XX WPI; 2003-342038/32.
DR N-PSDB; ACA6550.
XX
XX

Three hundred and five nucleic acids encoding secreted and transmembrane
PT PRO polypeptides, useful for the diagnosis, prevention and/or treatment
PT of tumors, such as adrenal, lung, colon, breast, prostate, rectal,
PT cervical or liver tumors.
XX

Claim 11; Fig 34; 708pp; English.

XX The invention relates to three hundred and five nucleic acids encoding
CC PRO polypeptides (secreted and transmembrane). Methods and compositions
CC of the present invention are useful for the diagnosis, prevention and/or
CC treatment of tumors, such as adrenal, lung, colon, breast, prostate,
CC rectal, cervical or liver tumors. The PRO polypeptides are also useful
CC as molecular weight markers, or for chromosome identification. The PRO
CC genes are useful as hybridisation probes, or for screening libraries of
CC human cDNA, genomic DNA or mRNA. The PRO genes may also be used in gene
CC therapy, particularly for replacing a defective gene. The present
CC sequence represents a human PRO polypeptide of the invention
XX
SQ Sequence 440 AA;

Query Match 94.3%; Score 417; DB 6; Length 440;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 26 LRLLLLFSAALIPGTGQNLFTKDVTVIEGEVATISQVNSKSDSDSVIQLLNPRTIY 85
DB 24 LRLLLLFSAALIPGTGQNLFTKDVTVIEGEVATISQVNSKSDSDSVIQLLNPRTIY 83
QY 86 FRDPRPKDSRFQLLNPFSSSELKVSLLTNVSIISDEGRYFCQLYTDPPOESYTTITVLVPPR 145
DB 84 FRDPRPKDSRFQLLNPFSSSELKVSLLTNVSIISDEGRYFCQLYTDPPOESYTTITVLVPPR 143
QY 146 NLMDIQDQTAVERGEELVNVCTAMASKPATIRWFKGNTLKGKSEVEEWSDMYTVTSOL 205
DB 144 NLMDIQDQTAVERGEELVNVCTAMASKPATIRWFKGNTLKGKSEVEEWSDMYTVTSOL 203
QY 206 MLKVHKEDDGPVLCQVEHPAVTGNLTQRYLEVQYKPVQHIQMTYPLQGLTREGDALEL 265
DB 204 MLKVHKEDDGPVLCQVEHPAVTGNLTQRYLEVQYKPVQHIQMTYPLQGLTREGDALEL 263
QY 266 TCEAIGKQPQPMVMTWRVDDMPQHAVLSGNPFIINNLTNDGTNRCEASNIVGKAHSD 325
DB 264 TCEAIGKQPQPMVMTWRVDDMPQHAVLSGNPFIINNLTNDGTNRCEASNIVGKAHSD 323
QY 326 YMLVYDPPPTTIPPTTT 385
DB 324 YMLVYDPPPTTIPPTTT 383
QY 386 FAMILCLLIILGRVFARHKGYFTFHEAKGADDAADADTAIINAEQQNNSEKKEYFI 442
DB 384 FAMILCLLIILGRVFARHKGYFTFHEAKGADDAADADTAIINAEQQNNSEKKEYFI 440

RESULT 37

ABR99368
ID ABR99368 standard; protein; 440 AA.

XX AC ABR99368;

XX DT 18-SEP-2003 (first entry)

XX DE Human secreted polypeptide PRO355, SEQ ID NO:34.

XX KW Human; PRO; secreted protein; transmembrane protein;
KW extracellular domain; tumour necrosis factor-alpha; TNF-alpha;
KW chondrocyte; proliferation; differentiation; cartilage disorder;
KW bone disorder; arthritis; sports injury; cancer; tumour; diagnosis;
KW adrenal tumour; lung; colon; breast; prostate; kidney; rectum; cervix;
KW liver; drug screening; transgenic animal; genetic analysis;
KW antiarthritic; vulnery; gene therapy.

XX OS Homo sapiens.

XX PN US2003040063-A1.

XX PD 27-FEB-2003.

XX PF 26-JUN-2002; 2002US-00183006.

XX PR 18-SEP-1997; 97US-0059263P.
XX PR 18-SEP-1997; 97US-0059266P.
XX PR 17-OCT-1997; 97US-0062250P.
XX PR 21-OCT-1997; 97US-0063486P.
XX PR 24-OCT-1997; 97US-0063120P.
XX PR 24-OCT-1997; 97US-0063121P.
XX PR 28-OCT-1997; 97US-0063540P.
XX PR 28-OCT-1997; 97US-0063541P.
XX PR 28-OCT-1997; 97US-0063544P.
XX PR 28-OCT-1997; 97US-0063564P.
XX PR 29-OCT-1997; 97US-0063734P.
XX PR 31-OCT-1997; 97US-0063870P.
XX PR 31-OCT-1997; 97US-0064103P.
XX PR 13-NOV-1997; 97US-0065311P.
XX PR 21-NOV-1997; 97US-0066120P.
XX PR 24-NOV-1997; 97US-0066466P.
XX PR 11-DEC-1997; 97US-0069335P.
XX PR 12-DEC-1997; 97US-0069425P.
XX PR 17-DEC-1997; 97US-0069870P.
XX PR 18-DEC-1997; 97US-0068017P.
XX PR 10-MAR-1998; 98US-0077450P.
XX PR 11-MAR-1998; 98US-0077632P.
XX PR 11-MAR-1998; 98US-0077649P.
XX PR 20-MAR-1998; 98US-0078886P.
XX PR 20-MAR-1998; 98US-0078939P.
XX PR 27-MAR-1998; 98US-0079664P.
XX PR 27-MAR-1998; 98US-0079786P.
XX PR 31-MAR-1998; 98US-0080107P.
XX PR 31-MAR-1998; 98US-0080194P.
XX PR 01-APR-1998; 98US-0080327P.
XX PR 01-APR-1998; 98US-0080333P.
XX PR 08-APR-1998; 98US-0081049P.
XX PR 08-APR-1998; 98US-0081070P.
XX PR 09-APR-1998; 98US-0081195P.
XX PR 15-APR-1998; 98US-0081838P.
XX PR 21-APR-1998; 98US-0082568P.
XX PR 21-APR-1998; 98US-0082569P.
XX PR 22-APR-1998; 98US-0082704P.
XX PR 22-APR-1998; 98US-0082707P.
XX PR 28-APR-1998; 98US-0083322P.
XX PR 29-APR-1998; 98US-0083495P.
XX PR 29-APR-1998; 98US-0083496P.
XX PR 29-APR-1998; 98US-0083499P.
XX PR 29-APR-1998; 98US-0083559P.

| | | | | | |
|----|--------------|----------------|----|--------------|----------------|
| PR | 05-MAY-1998; | 98US-0084366P. | PR | 24-JUL-1998; | 98US-0094006P. |
| PR | 06-MAY-1998; | 98US-0084414P. | PR | 04-AUG-1998; | 98US-0095282P. |
| PR | 07-MAY-1998; | 98US-0084639P. | PR | 10-AUG-1998; | 98US-0095998P. |
| PR | 07-MAY-1998; | 98US-0084640P. | PR | 10-AUG-1998; | 98US-0096012P. |
| PR | 07-MAY-1998; | 98US-0084643P. | PR | 17-AUG-1998; | 98US-0096757P. |
| PR | 15-MAY-1998; | 98US-0085599P. | PR | 17-AUG-1998; | 98US-0096766P. |
| PR | 15-MAY-1998; | 98US-0085580P. | PR | 17-AUG-1998; | 98US-0096867P. |
| PR | 15-MAY-1998; | 98US-0085582P. | PR | 17-AUG-1998; | 98US-0096891P. |
| PR | 15-MAY-1998; | 98US-0086023P. | PR | 17-AUG-1998; | 98US-0096897P. |
| PR | 18-MAY-1998; | 98US-0086023P. | PR | 18-AUG-1998; | 98US-0096949P. |
| PR | 22-MAY-1998; | 98US-0086392P. | PR | 18-AUG-1998; | 98US-0096959P. |
| PR | 22-MAY-1998; | 98US-0086486P. | PR | 18-AUG-1998; | 98US-0097022P. |
| PR | 28-MAY-1998; | 98US-0086708P. | PR | 26-AUG-1998; | 98US-0097952P. |
| PR | 28-MAY-1998; | 98US-0087208P. | PR | 26-AUG-1998; | 98US-0097952P. |
| PR | 02-JUN-1998; | 98US-0087609P. | PR | 26-AUG-1998; | 98US-0097955P. |
| PR | 03-JUN-1998; | 98US-0087759P. | PR | 26-AUG-1998; | 98US-0097955P. |
| PR | 03-JUN-1998; | 98US-0087827P. | PR | 26-AUG-1998; | 98US-0097971P. |
| PR | 04-JUN-1998; | 98US-0088025P. | PR | 26-AUG-1998; | 98US-0097974P. |
| PR | 04-JUN-1998; | 98US-0088028P. | PR | 26-AUG-1998; | 98US-0098014P. |
| PR | 04-JUN-1998; | 98US-0088029P. | PR | 01-SEP-1998; | 98US-0098716P. |
| PR | 04-JUN-1998; | 98US-0088033P. | PR | 01-SEP-1998; | 98US-0098723P. |
| PR | 04-JUN-1998; | 98US-0088326P. | PR | 02-SEP-1998; | 98US-0098803P. |
| PR | 05-JUN-1998; | 98US-0088167P. | PR | 02-SEP-1998; | 98US-0098821P. |
| PR | 05-JUN-1998; | 98US-0088202P. | PR | 02-SEP-1998; | 98US-0098843P. |
| PR | 05-JUN-1998; | 98US-0088212P. | PR | 09-SEP-1998; | 98US-0099602P. |
| PR | 05-JUN-1998; | 98US-0088217P. | PR | 10-SEP-1998; | 98US-0099741P. |
| PR | 05-JUN-1998; | 98US-0088655P. | PR | 10-SEP-1998; | 98US-0099754P. |
| PR | 10-JUN-1998; | 98US-0088722P. | PR | 10-SEP-1998; | 98US-0099763P. |
| PR | 10-JUN-1998; | 98US-0088738P. | PR | 10-SEP-1998; | 98US-0099812P. |
| PR | 10-JUN-1998; | 98US-0088740P. | PR | 15-SEP-1998; | 98US-0100388P. |
| PR | 10-JUN-1998; | 98US-0088811P. | PR | 16-SEP-1998; | 98US-0100662P. |
| PR | 10-JUN-1998; | 98US-0088824P. | PR | 16-SEP-1998; | 98US-0100664P. |
| PR | 10-JUN-1998; | 98US-0088825P. | PR | 16-SEP-1998; | 98US-0101751P. |
| PR | 10-JUN-1998; | 98US-0088826P. | PR | 16-SEP-1998; | 98US-01019330. |
| PR | 11-JUN-1998; | 98US-0088861P. | PR | 17-SEP-1998; | 98US-0100683P. |
| PR | 11-JUN-1998; | 98US-0088863P. | PR | 17-SEP-1998; | 98US-0100684P. |
| PR | 11-JUN-1998; | 98US-0088876P. | PR | 17-SEP-1998; | 98US-0100919P. |
| PR | 12-JUN-1998; | 98US-0089090P. | PR | 17-SEP-1998; | 98US-0100930P. |
| PR | 12-JUN-1998; | 98US-0089105P. | PR | 18-SEP-1998; | 98US-0100849P. |
| PR | 16-JUN-1998; | 98US-0089512P. | PR | 18-SEP-1998; | 98US-0101014P. |
| PR | 16-JUN-1998; | 98US-0089514P. | PR | 18-SEP-1998; | 98US-0101068P. |
| PR | 17-JUN-1998; | 98US-0089538P. | PR | 23-SEP-1998; | 98US-0101471P. |
| PR | 17-JUN-1998; | 98US-0089598P. | PR | 23-SEP-1998; | 98US-0101472P. |
| PR | 17-JUN-1998; | 98US-0089653P. | PR | 23-SEP-1998; | 98US-0101475P. |
| PR | 18-JUN-1998; | 98US-0089908P. | PR | 23-SEP-1998; | 98US-0101477P. |
| PR | 19-JUN-1998; | 98US-0089952P. | PR | 24-SEP-1998; | 98US-0101738P. |
| PR | 22-JUN-1998; | 98US-0090246P. | PR | 24-SEP-1998; | 98US-0101739P. |
| PR | 22-JUN-1998; | 98US-0090252P. | PR | 24-SEP-1998; | 98US-0101743P. |
| PR | 24-JUN-1998; | 98US-0090429P. | PR | 24-SEP-1998; | 98US-0101922P. |
| PR | 24-JUN-1998; | 98US-0090435P. | PR | 25-SEP-1998; | 98US-0101786P. |
| PR | 24-JUN-1998; | 98US-0090444P. | PR | 29-SEP-1998; | 98US-0102207P. |
| PR | 24-JUN-1998; | 98US-0090461P. | PR | 29-SEP-1998; | 98US-0102240P. |
| PR | 24-JUN-1998; | 98US-0090535P. | PR | 29-SEP-1998; | 98US-0102330P. |
| PR | 24-JUN-1998; | 98US-0090535P. | PR | 29-SEP-1998; | 98US-0102331P. |
| PR | 25-JUN-1998; | 98US-0090676P. | PR | 30-SEP-1998; | 98US-0102487P. |
| PR | 25-JUN-1998; | 98US-0090678P. | PR | 30-SEP-1998; | 98US-0102570P. |
| PR | 25-JUN-1998; | 98US-0090688P. | PR | 30-SEP-1998; | 98US-0102571P. |
| PR | 25-JUN-1998; | 98US-0090690P. | PR | 01-OCT-1998; | 98US-0102684P. |
| PR | 25-JUN-1998; | 98US-0090694P. | PR | 01-OCT-1998; | 98US-0102687P. |
| PR | 25-JUN-1998; | 98US-0090695P. | | | |
| PR | 25-JUN-1998; | 98US-0090696P. | | | |
| PR | 26-JUN-1998; | 98US-00105413. | | | |
| PR | 26-JUN-1998; | 98US-0090862P. | | | |
| PR | 26-JUN-1998; | 98US-0090863P. | | | |
| PR | 26-JUN-1998; | 98US-0091010P. | | | |
| PR | 01-JUL-1998; | 98US-0091359P. | | | |
| PR | 01-JUL-1998; | 98US-0091544P. | | | |
| PR | 02-JUL-1998; | 98US-0091478P. | | | |
| PR | 02-JUL-1998; | 98US-0091486P. | | | |
| PR | 02-JUL-1998; | 98US-0091626P. | | | |
| PR | 02-JUL-1998; | 98US-0091628P. | | | |
| PR | 02-JUL-1998; | 98US-0091632P. | | | |

Query Match

Best Local Similarity 94.3%; Score 417; DB 6; Length 440;

Mismatches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

| | | | |
|----|-----|---|-----|
| Qy | 26 | LRLLLLLFSAAALPTGDCGNLFTKDVTVIEGEVATISCOVNKSDSDSVIQLLNPRTIY | 85 |
| Db | 24 | LRLLLLLFSAAALPTGDCGNLFTKDVTVIEGEVATISCOVNKSDSDSVIQLLNPRTIY | 83 |
| Qy | 86 | FRDFRPLKDSRFOLLNFSSELKVSILTNVSIISDEGRYFCOLYTDPPQESYTTITVLVPPR | 145 |
| Db | 84 | FRDFRPLKDSRFOLLNFSSELKVSILTNVSIISDEGRYFCOLYTDPPQESYTTITVLVPPR | 143 |
| Qy | 146 | NLMIDIQKDTAVEGEIEIVNCTAMASKPATTTWFKGNTELKSKSEVEESDMYTTVSOL | 205 |


```
Db      144  NLMIDIQDTAVEGEEIEVNCNTAMASKPATIRWFKGNTELKKGKSEVEWSDMYTVTSQ 203
Qy      206  MLKVHKEDDGPVVCQVEHPAVTGNLQRTQRYLEVQYKPVHIOQMTYPLQGLTREGDALEL 265
Db      204  MLKVHKEDDGPVVCQVEHPAVTGNLQRTQRYLEVQYKPVHIOQMTYPLQGLTREGDALEL 263
Qy      266  TCEAIGKQPQVMWTVWVDDMPQHAVLSGPNLFNNLNKTDNGTYRCEASNVGKAHSD 325
Db      264  TCEAIGKQPQVMWTVWVDDMPQHAVLSGPNLFNNLNKTDNGTYRCEASNVGKAHSD 323
Qy      326  YMLVYDPTTIPPTPTTTTTTTTTTTTTTTTTTTTTIITDSRAGEGSIKRAVDHAVIGGVAVV 385
Db      324  YMLVYDPTTIPPTPTTTTTTTTTTTTTTTTTTTTTIITDSRAGEGSIKRAVDHAVIGGVAVV 383
Qy      386  FAMLCLLIILGRYPARHKGTFTFHEAKGADDAADATTAIINAEQQNNSEKKEYFI 442
Db      384  FAMLCLLIILGRYPARHKGTFTFHEAKGADDAADATTAIINAEQQNNSEKKEYFI 440

RESULT 38
ABR98758
ID   ABR98758 standard; protein; 440 AA.
XX
AC   ABR98758;
XX
DT   17-SEP-2003 (first entry)
XX
DE   Human secreted polypeptide PRO355, SEQ ID NO:34.
XX
KW   Human; PRO; secreted protein; transmembrane protein;
KW   extracellular domain; tumour necrosis factor-alpha; TNF-alpha;
KW   chondrocyte; proliferation; differentiation; cartilage disorder;
KW   bone disorder; arthritis; sports injury; cancer; tumour; diagnosis;
KW   adrenal tumour; lung; colon; breast; prostate; kidney; rectum; cervix;
KW   liver; drug screening; transgenic animal; genetic analysis;
KW   antiarthritic; vulnery; gene therapy.
XX
OS   Homo sapiens.
XX
XX   US2003040064-A1.
XX
PD   27-FEB-2003.
XX
PF   26-JUN-2002; 2002US-00183008.
XX
XX   18-SEP-1997; 97US-0059263P.
XX   18-SEP-1997; 97US-0059266P.
XX   17-OCT-1997; 97US-0062250P.
XX   21-OCT-1997; 97US-0063486P.
XX   24-OCT-1997; 97US-0063120P.
XX   28-OCT-1997; 97US-0063121P.
XX   28-OCT-1997; 97US-0063540P.
XX   28-OCT-1997; 97US-0063541P.
XX   28-OCT-1997; 97US-0063544P.
XX   28-OCT-1997; 97US-0063564P.
XX   29-OCT-1997; 97US-0063734P.
XX   31-OCT-1997; 97US-0063870P.
XX   31-OCT-1997; 97US-0064103P.
XX   13-NOV-1997; 97US-0065311P.
XX   21-NOV-1997; 97US-0066120P.
XX   24-NOV-1997; 97US-0066466P.
XX   24-NOV-1997; 97US-0066772P.
XX   11-DEC-1997; 97US-0069335P.
XX   12-DEC-1997; 97US-0069425P.
XX   17-DEC-1997; 97US-0069870P.
XX   18-DEC-1997; 97US-0068017P.
XX   10-MAR-1998; 98US-0077450P.
XX   11-MAR-1998; 98US-0077632P.
XX   11-MAR-1998; 98US-0077649P.
XX   20-MAR-1998; 98US-0078886P.
XX   20-MAR-1998; 98US-0078939P.
XX   27-MAR-1998; 98US-0079664P.
XX   27-MAR-1998; 98US-0079786P.
XX   31-MAR-1998; 98US-0080107P.
XX   31-MAR-1998; 98US-0080194P.
XX   01-APR-1998; 98US-0080327P.
XX   01-APR-1998; 98US-0080333P.
XX   08-APR-1998; 98US-0081049P.
XX   08-APR-1998; 98US-0081070P.
XX   09-APR-1998; 98US-0081195P.
XX   15-APR-1998; 98US-0081838P.
XX   21-APR-1998; 98US-0082568P.
XX   22-APR-1998; 98US-0082704P.
XX   28-APR-1998; 98US-0083322P.
XX   29-APR-1998; 98US-0083495P.
XX   29-APR-1998; 98US-0083496P.
XX   29-APR-1998; 98US-0083499P.
XX   29-APR-1998; 98US-0083559P.
XX   05-MAY-1998; 98US-0084366P.
XX   06-MAY-1998; 98US-0084414P.
XX   07-MAY-1998; 98US-0084639P.
XX   07-MAY-1998; 98US-0084640P.
XX   15-MAY-1998; 98US-0084643P.
XX   15-MAY-1998; 98US-0085579P.
XX   15-MAY-1998; 98US-0085580P.
XX   15-MAY-1998; 98US-0085582P.
XX   15-MAY-1998; 98US-0085700P.
XX   18-MAY-1998; 98US-0086023P.
XX   22-MAY-1998; 98US-0086392P.
XX   22-MAY-1998; 98US-0086486P.
XX   28-MAY-1998; 98US-0087098P.
XX   28-MAY-1998; 98US-0087208P.
XX   02-JUN-1998; 98US-0087609P.
XX   03-JUN-1998; 98US-0087759P.
XX   04-JUN-1998; 98US-0088025P.
XX   04-JUN-1998; 98US-0088028P.
XX   04-JUN-1998; 98US-0088029P.
XX   04-JUN-1998; 98US-0088033P.
XX   04-JUN-1998; 98US-0088326P.
XX   05-JUN-1998; 98US-0088167P.
XX   05-JUN-1998; 98US-0088202P.
XX   05-JUN-1998; 98US-0088212P.
XX   05-JUN-1998; 98US-0088217P.
XX   09-JUN-1998; 98US-0088655P.
XX   10-JUN-1998; 98US-0088722P.
XX   10-JUN-1998; 98US-0088738P.
XX   10-JUN-1998; 98US-0088740P.
XX   10-JUN-1998; 98US-0088811P.
XX   10-JUN-1998; 98US-0088824P.
XX   10-JUN-1998; 98US-0088825P.
XX   11-JUN-1998; 98US-0088826P.
XX   11-JUN-1998; 98US-0088861P.
XX   11-JUN-1998; 98US-0088863P.
XX   11-JUN-1998; 98US-0088876P.
XX   12-JUN-1998; 98US-0089090P.
XX   12-JUN-1998; 98US-0089105P.
XX   16-JUN-1998; 98US-0089512P.
XX   16-JUN-1998; 98US-0089514P.
XX   17-JUN-1998; 98US-0089538P.
XX   17-JUN-1998; 98US-0089598P.
XX   17-JUN-1998; 98US-0089653P.
XX   18-JUN-1998; 98US-0089908P.
XX   19-JUN-1998; 98US-0089952P.
XX   22-JUN-1998; 98US-0090246P.
XX   22-JUN-1998; 98US-0090252P.
XX   22-JUN-1998; 98US-0090254P.
XX   24-JUN-1998; 98US-0090429P.
XX   24-JUN-1998; 98US-0090435P.
XX   24-JUN-1998; 98US-0090444P.
XX   24-JUN-1998; 98US-0090461P.
XX   24-JUN-1998; 98US-0090535P.
XX   24-JUN-1998; 98US-0090540P.
XX   25-JUN-1998; 98US-0090676P.
```

```
PR 25-JUN-1998; 98US-0090678P.
PR 25-JUN-1998; 98US-0090688P.
PR 25-JUN-1998; 98US-0090690P.
PR 25-JUN-1998; 98US-0090694P.
PR 25-JUN-1998; 98US-0090695P.
PR 25-JUN-1998; 98US-0090696P.
PR 26-JUN-1998; 98US-00105413.
PR 26-JUN-1998; 98US-0090862P.
PR 26-JUN-1998; 98US-0090863P.
PR 26-JUN-1998; 98US-0091010P.
PR 01-JUL-1998; 98US-0091359P.
PR 01-JUL-1998; 98US-0091544P.
PR 02-JUL-1998; 98US-0091478P.
PR 02-JUL-1998; 98US-0091486P.
PR 02-JUL-1998; 98US-0091626P.
PR 02-JUL-1998; 98US-0091628P.
PR 02-JUL-1998; 98US-0091632P.
PR 24-JUL-1998; 98US-0094006P.
PR 04-AUG-1998; 98US-0095282P.
PR 10-AUG-1998; 98US-0095998P.
PR 10-AUG-1998; 98US-0096012P.
PR 17-AUG-1998; 98US-0096757P.
PR 17-AUG-1998; 98US-0096766P.
PR 17-AUG-1998; 98US-0096867P.
PR 17-AUG-1998; 98US-0096891P.
PR 17-AUG-1998; 98US-0096897P.
PR 18-AUG-1998; 98US-0096949P.
PR 18-AUG-1998; 98US-0096959P.
PR 18-AUG-1998; 98US-0097022P.
PR 26-AUG-1998; 98US-0097952P.
PR 26-AUG-1998; 98US-0097954P.
PR 26-AUG-1998; 98US-0097955P.
PR 26-AUG-1998; 98US-0097971P.
PR 26-AUG-1998; 98US-0097974P.
PR 26-AUG-1998; 98US-0098014P.
PR 01-SEP-1998; 98US-0098716P.
PR 01-SEP-1998; 98US-0098723P.
PR 02-SEP-1998; 98US-0098803P.
PR 02-SEP-1998; 98US-0098821P.
PR 02-SEP-1998; 98US-0098843P.
PR 02-SEP-1998; 98US-0099602P.
PR 10-SEP-1998; 98US-0099741P.
PR 10-SEP-1998; 98US-0099754P.
PR 10-SEP-1998; 98US-0099763P.
PR 10-SEP-1998; 98US-0099812P.
PR 16-SEP-1998; 98US-0100388P.
PR 16-SEP-1998; 98US-0100662P.
PR 16-SEP-1998; 98US-0100664P.
PR 16-SEP-1998; 98US-0101751P.
PR 16-SEP-1998; 98WO-US019330.
PR 17-SEP-1998; 98US-0100683P.
PR 17-SEP-1998; 98US-0100684P.
PR 17-SEP-1998; 98US-0100919P.
PR 17-SEP-1998; 98US-0100930P.
PR 18-SEP-1998; 98US-0100849P.
PR 18-SEP-1998; 98US-0101014P.
PR 18-SEP-1998; 98US-0101068P.
PR 23-SEP-1998; 98US-0101471P.
PR 23-SEP-1998; 98US-0101472P.
PR 23-SEP-1998; 98US-0101475P.
PR 23-SEP-1998; 98US-0101477P.
PR 24-SEP-1998; 98US-0101738P.
PR 24-SEP-1998; 98US-0101739P.
PR 24-SEP-1998; 98US-0101743P.
PR 24-SEP-1998; 98US-0101922P.
PR 25-SEP-1998; 98US-0101786P.
PR 25-SEP-1998; 98US-0102207P.
PR 25-SEP-1998; 98US-0102240P.
PR 25-SEP-1998; 98US-0102330P.
PR 25-SEP-1998; 98US-0102331P.
PR 30-SEP-1998; 98US-0102487P.
PR 30-SEP-1998; 98US-0102570P.
PR 30-SEP-1998; 98US-0102571P.

PR 01-OCT-1998; 98US-0102684P.
PR 01-OCT-1998; 98US-0102687P.

Query Match 94.3%; Score 417; DB 6; Length 440;
Best Local Similarity 100.0%; Pred.No. 0;
Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 26 LRLLLLLFSAALIPITGDGQNLPTKDVTVIEGVAATISQVKNKSDSDSVIQLLNPRTIY 85
DB 24 LRLLLLLFSAALIPITGDGQNLPTKDVTVIEGVAATISQVKNKSDSDSVIQLLNPRTIY 83
QY 86 FRDFRPLKDSRFQLNLFSSSELKVSLSNVSISDEGRYFCQLYDTPPQESYTTITVLVPPR 145
DB 84 FRDFRPLKDSRFQLNLFSSSELKVSLSNVSISDEGRYFCQLYDTPPQESYTTITVLVPPR 143
QY 146 NLMIDIQKDTAVEGEIEIVNCTAMASKPATITIRWFKGNTLKGKSEVEEWSDMYVTSOL 205
DB 144 NLMIDIQKDTAVEGEIEIVNCTAMASKPATITIRWFKGNTLKGKSEVEEWSDMYVTSOL 203
QY 206 MLKVHKEDDGPVICQVEHPAVTGNLQTORYLEVQVKPOVHIQMTYPLQGLTREGDALEL 265
DB 204 MLKVHKEDDGPVICQVEHPAVTGNLQTORYLEVQVKPOVHIQMTYPLQGLTREGDALEL 263
QY 266 TCEAIGKQPQVMVTVRVDDMPQHAVLSGPNLFINNKNKTNDNGTYRCEASNIVGKAHSD 325
DB 264 TCEAIGKQPQVMVTVRVDDMPQHAVLSGPNLFINNKNKTNDNGTYRCEASNIVGKAHSD 323
QY 326 YMLYVYDPPPTIIPPTTTTTTTTTTTTTTTTTTTTTITITDSRAGEEGSIRAVDHAVIGVAVVV 385
DB 324 YMLYVYDPPPTIIPPTTTTTTTTTTTTTTTTTTTTTITITDSRAGEEGSIRAVDHAVIGVAVVV 383
QY 386 FAMLCLLIILGRYFARHKGTFTHEAKGADDAADADATAIINAEQGQNNSEKKEYFI 442
DB 384 FAMLCLLIILGRYFARHKGTFTHEAKGADDAADADATAIINAEQGQNNSEKKEYFI 440

RESULT 39
ABO16281
ID ABO16281 standard; protein; 440 AA.
XX ABO16281;
XX
XX
DT 25-AUG-2003 (first entry)
DE Human secreted/transmembrane protein (PRO) #17.
XX
KW Human; secreted and transmembrane protein; PRO; TNF-alpha;
KW tumour necrosis factor alpha; chondrocyte cell; tumour; gene therapy;
KW tissue typing; adrenal tumour; lung tumour; colon tumour; breast tumour;
XX prostate tumour; rectal tumour; cervical tumour; liver tumour.
OS Homo sapiens.
XX
PN US2003027267-A1.
XX
PD 06-FEB-2003.
XX
PF 19-JUN-2002; 2002US-00175739.
XX
PR 18-SEP-1997; 97US-0059263P.
PR 18-SEP-1997; 97US-0059266P.
PR 17-OCT-1997; 97US-0062250P.
PR 21-OCT-1997; 97US-0063486P.
PR 24-OCT-1997; 97US-0063120P.
PR 24-OCT-1997; 97US-0063121P.
PR 28-OCT-1997; 97US-0063540P.
PR 28-OCT-1997; 97US-0063541P.
PR 28-OCT-1997; 97US-0063544P.
PR 28-OCT-1997; 97US-0063564P.
PR 29-OCT-1997; 97US-0063724P.
PR 31-OCT-1997; 97US-0063870P.
PR 31-OCT-1997; 97US-0064103P.
PR 13-NOV-1997; 97US-0065311P.
```

PR 21-NOV-1997; 97US-00661120P.
PR 24-NOV-1997; 97US-00664466P.
PR 24-NOV-1997; 97US-00667722P.
PR 11-DEC-1997; 97US-00693333P.
PR 12-DEC-1997; 97US-00694455P.
PR 17-DEC-1997; 97US-0069870P.
PR 18-DEC-1997; 97US-0068017P.
PR 10-MAR-1998; 98US-0077450P.
PR 11-MAR-1998; 98US-0077632P.
PR 11-MAR-1998; 98US-0077649P.
PR 20-MAR-1998; 98US-0078886P.
PR 20-MAR-1998; 98US-0078939P.
PR 27-MAR-1998; 98US-0079664P.
PR 27-MAR-1998; 98US-0079786P.
PR 31-MAR-1998; 98US-0080107P.
PR 31-MAR-1998; 98US-0080194P.
PR 01-APR-1998; 98US-0080327P.
PR 01-APR-1998; 98US-0080333P.
PR 08-APR-1998; 98US-0081049P.
PR 08-APR-1998; 98US-0081070P.
PR 09-APR-1998; 98US-0081195P.
PR 15-APR-1998; 98US-0081838P.
PR 21-APR-1998; 98US-0082568P.
PR 21-APR-1998; 98US-0082569P.
PR 22-APR-1998; 98US-0082704P.
PR 22-APR-1998; 98US-0082797P.
PR 28-APR-1998; 98US-0083322P.
PR 29-APR-1998; 98US-0083495P.
PR 29-APR-1998; 98US-0083496P.
PR 29-APR-1998; 98US-0083499P.
PR 29-APR-1998; 98US-0083559P.
PR 05-MAY-1998; 98US-0084366P.
PR 06-MAY-1998; 98US-0084414P.
PR 07-MAY-1998; 98US-0084639P.
PR 07-MAY-1998; 98US-0084640P.
PR 07-MAY-1998; 98US-0084643P.
PR 15-MAY-1998; 98US-0085579P.
PR 15-MAY-1998; 98US-0085580P.
PR 15-MAY-1998; 98US-0085582P.
PR 15-MAY-1998; 98US-0085700P.
PR 18-MAY-1998; 98US-0086023P.
PR 22-MAY-1998; 98US-0086392P.
PR 22-MAY-1998; 98US-0086486P.
PR 28-MAY-1998; 98US-0087098P.
PR 28-MAY-1998; 98US-0087609P.
PR 02-JUN-1998; 98US-0087609P.
PR 02-JUN-1998; 98US-0087759P.
PR 03-JUN-1998; 98US-0087827P.
PR 04-JUN-1998; 98US-0088025P.
PR 04-JUN-1998; 98US-0088028P.
PR 04-JUN-1998; 98US-0088029P.
PR 04-JUN-1998; 98US-0088033P.
PR 04-JUN-1998; 98US-0088326P.
PR 05-JUN-1998; 98US-0088167P.
PR 05-JUN-1998; 98US-0088162P.
PR 05-JUN-1998; 98US-0088202P.
PR 05-JUN-1998; 98US-0088212P.
PR 05-JUN-1998; 98US-0088217P.
PR 09-JUN-1998; 98US-0088655P.
PR 10-JUN-1998; 98US-0088722P.
PR 10-JUN-1998; 98US-0088738P.
PR 10-JUN-1998; 98US-0088740P.
PR 10-JUN-1998; 98US-0088811P.
PR 10-JUN-1998; 98US-0088824P.
PR 10-JUN-1998; 98US-0088825P.
PR 10-JUN-1998; 98US-0088826P.
PR 11-JUN-1998; 98US-0088861P.
PR 11-JUN-1998; 98US-0088863P.
PR 11-JUN-1998; 98US-0088876P.
PR 12-JUN-1998; 98US-0089090P.
PR 12-JUN-1998; 98US-0089105P.
PR 16-JUN-1998; 98US-0089512P.
PR 16-JUN-1998; 98US-0089514P.
PR 17-JUN-1998; 98US-0089538P.

PR 17-JUN-1998; 98US-0089598P.
PR 17-JUN-1998; 98US-0089653P.
PR 18-JUN-1998; 98US-0089908P.
PR 19-JUN-1998; 98US-0089952P.
PR 22-JUN-1998; 98US-0090246P.
PR 22-JUN-1998; 98US-0090252P.
PR 22-JUN-1998; 98US-0090254P.
PR 24-JUN-1998; 98US-0090429P.
PR 24-JUN-1998; 98US-0090435P.
PR 24-JUN-1998; 98US-0090444P.
PR 24-JUN-1998; 98US-0090461P.
PR 24-JUN-1998; 98US-0090535P.
PR 24-JUN-1998; 98US-0090540P.
PR 25-JUN-1998; 98US-0090676P.
PR 25-JUN-1998; 98US-0090678P.
PR 25-JUN-1998; 98US-0090688P.
PR 25-JUN-1998; 98US-0090690P.
PR 25-JUN-1998; 98US-0090694P.
PR 25-JUN-1998; 98US-0090895P.
PR 25-JUN-1998; 98US-0090896P.
PR 26-JUN-1998; 98US-00105413.
PR 26-JUN-1998; 98US-0090862P.
PR 26-JUN-1998; 98US-0090863P.
PR 26-JUN-1998; 98US-0091010P.
PR 01-JUL-1998; 98US-0091359P.
PR 01-JUL-1998; 98US-0091544P.
PR 02-JUL-1998; 98US-0091478P.
PR 02-JUL-1998; 98US-0091486P.
PR 02-JUL-1998; 98US-0091626P.
PR 02-JUL-1998; 98US-0091628P.
PR 02-JUL-1998; 98US-0091632P.
PR 24-JUL-1998; 98US-0094006P.
PR 04-AUG-1998; 98US-0095282P.
PR 10-AUG-1998; 98US-0095998P.
PR 10-AUG-1998; 98US-0096012P.
PR 17-AUG-1998; 98US-0096757P.
PR 17-AUG-1998; 98US-0096766P.
PR 17-AUG-1998; 98US-0096867P.
PR 17-AUG-1998; 98US-0096891P.
PR 17-AUG-1998; 98US-0096897P.
PR 18-AUG-1998; 98US-0096949P.
PR 18-AUG-1998; 98US-0096959P.
PR 18-AUG-1998; 98US-0097022P.
PR 26-AUG-1998; 98US-0097952P.
PR 26-AUG-1998; 98US-0097954P.
PR 26-AUG-1998; 98US-0097955P.
PR 26-AUG-1998; 98US-0097971P.
PR 26-AUG-1998; 98US-0097974P.
PR 26-AUG-1998; 98US-0098014P.
PR 01-SEP-1998; 98US-0098716P.
PR 01-SEP-1998; 98US-0098723P.
PR 02-SEP-1998; 98US-0098803P.
PR 02-SEP-1998; 98US-0098821P.
PR 02-SEP-1998; 98US-0098843P.
PR 03-SEP-1998; 98US-0099602P.
PR 10-SEP-1998; 98US-0099741P.
PR 10-SEP-1998; 98US-0099754P.
PR 10-SEP-1998; 98US-0099763P.
PR 10-SEP-1998; 98US-0099812P.
PR 15-SEP-1998; 98US-0100388P.
PR 16-SEP-1998; 98US-0100662P.
PR 16-SEP-1998; 98US-0100664P.
PR 16-SEP-1998; 98US-0101751P.
PR 16-SEP-1998; 98WO-US019330.
PR 17-SEP-1998; 98US-0100683P.
PR 17-SEP-1998; 98US-0100684P.
PR 17-SEP-1998; 98US-0100919P.
PR 17-SEP-1998; 98US-0100930P.
PR 18-SEP-1998; 98US-0100849P.
PR 18-SEP-1998; 98US-0101014P.
PR 18-SEP-1998; 98US-0101068P.
PR 23-SEP-1998; 98US-0101471P.
PR 23-SEP-1998; 98US-0101472P.

| | | |
|--|--------------|--|
| PR | 05-JUN-1998; | 98US-0088167P. |
| PR | 05-JUN-1998; | 98US-0088202P. |
| PR | 05-JUN-1998; | 98US-0088212P. |
| PR | 05-JUN-1998; | 98US-0088217P. |
| PR | 09-JUN-1998; | 98US-0088655P. |
| PR | 10-JUN-1998; | 98US-0088722P. |
| PR | 10-JUN-1998; | 98US-0088738P. |
| PR | 10-JUN-1998; | 98US-0088740P. |
| PR | 10-JUN-1998; | 98US-0088811P. |
| PR | 10-JUN-1998; | 98US-0088824P. |
| PR | 10-JUN-1998; | 98US-0088825P. |
| PR | 10-JUN-1998; | 98US-0088826P. |
| PR | 11-JUN-1998; | 98US-0088861P. |
| PR | 11-JUN-1998; | 98US-0088862P. |
| PR | 11-JUN-1998; | 98US-0088876P. |
| PR | 12-JUN-1998; | 98US-0089090P. |
| PR | 12-JUN-1998; | 98US-0089105P. |
| PR | 16-JUN-1998; | 98US-0089512P. |
| PR | 16-JUN-1998; | 98US-0089514P. |
| PR | 17-JUN-1998; | 98US-0089538P. |
| PR | 17-JUN-1998; | 98US-0089598P. |
| PR | 17-JUN-1998; | 98US-0089653P. |
| PR | 18-JUN-1998; | 98US-0089908P. |
| PR | 19-JUN-1998; | 98US-0089952P. |
| PR | 22-JUN-1998; | 98US-0090246P. |
| PR | 22-JUN-1998; | 98US-0090252P. |
| PR | 22-JUN-1998; | 98US-0090254P. |
| PR | 24-JUN-1998; | 98US-0090429P. |
| PR | 24-JUN-1998; | 98US-0090435P. |
| PR | 24-JUN-1998; | 98US-0090444P. |
| PR | 24-JUN-1998; | 98US-0090461P. |
| PR | 24-JUN-1998; | 98US-0090535P. |
| PR | 24-JUN-1998; | 98US-0090540P. |
| PR | 25-JUN-1998; | 98US-0090695P. |
| PR | 25-JUN-1998; | 98US-0090696P. |
| PR | 26-JUN-1998; | 98US-00105413. |
| PR | 26-JUN-1998; | 98US-0090862P. |
| PR | 26-JUN-1998; | 98US-0090863P. |
| PR | 26-JUN-1998; | 98US-0091010P. |
| PR | 01-JUL-1998; | 98US-0091359P. |
| PR | 01-JUL-1998; | 98US-0091544P. |
| PR | 02-JUL-1998; | 98US-0091478P. |
| PR | 02-JUL-1998; | 98US-0091486P. |
| PR | 02-JUL-1998; | 98US-0091626P. |
| PR | 02-JUL-1998; | 98US-0091628P. |
| PR | 02-JUL-1998; | 98US-0091632P. |
| PR | 24-JUL-1998; | 98US-0094006P. |
| PR | 04-AUG-1998; | 98US-0095282P. |
| PR | 10-AUG-1998; | 98US-0095998P. |
| PR | 10-AUG-1998; | 98US-0095987P. |
| PR | 17-AUG-1998; | 98US-0096012P. |
| PR | 17-AUG-1998; | 98US-0096757P. |
| PR | 17-AUG-1998; | 98US-0096766P. |
| PR | 17-AUG-1998; | 98US-0096867P. |
| PR | 17-AUG-1998; | 98US-0096891P. |
| PR | 17-AUG-1998; | 98US-0096897P. |
| PR | 18-AUG-1998; | 98US-0096949P. |
| PR | 18-AUG-1998; | 98US-0096959P. |
| PR | 18-AUG-1998; | 98US-0097022P. |
| PR | 26-AUG-1998; | 98US-0097952P. |
| PR | 26-AUG-1998; | 98US-0097954P. |
| PR | 26-AUG-1998; | 98US-0097955P. |
| PR | 26-AUG-1998; | 98US-0097971P. |
| PR | 26-AUG-1998; | 98US-0097974P. |
| PR | 01-SEP-1998; | 98US-0098014P. |
| PR | 01-SEP-1998; | 98US-0098716P. |
| PR | 01-SEP-1998; | 98US-0098723P. |
| PR | 02-SEP-1998; | 98US-0098803P. |
| PR | 02-SEP-1998; | 98US-0098821P. |
| <hr/> | | |
| PR | 02-SEP-1998; | 98US-0098843P. |
| PR | 09-SEP-1998; | 98US-0099602P. |
| PR | 10-SEP-1998; | 98US-0099741P. |
| PR | 10-SEP-1998; | 98US-0099754P. |
| PR | 10-SEP-1998; | 98US-0099763P. |
| PR | 15-SEP-1998; | 98US-0099812P. |
| PR | 15-SEP-1998; | 98US-0100388P. |
| PR | 16-SEP-1998; | 98US-0100662P. |
| PR | 16-SEP-1998; | 98US-0100664P. |
| PR | 16-SEP-1998; | 98US-0101751P. |
| PR | 16-SEP-1998; | 98US-01019330. |
| PR | 17-SEP-1998; | 98US-0100683P. |
| PR | 17-SEP-1998; | 98US-0100684P. |
| PR | 17-SEP-1998; | 98US-0100919P. |
| PR | 17-SEP-1998; | 98US-0100930P. |
| PR | 18-SEP-1998; | 98US-0100849P. |
| PR | 18-SEP-1998; | 98US-0101014P. |
| PR | 18-SEP-1998; | 98US-0101068P. |
| PR | 23-SEP-1998; | 98US-0101471P. |
| PR | 23-SEP-1998; | 98US-0101472P. |
| PR | 23-SEP-1998; | 98US-0101475P. |
| PR | 23-SEP-1998; | 98US-0101477P. |
| PR | 24-SEP-1998; | 98US-0101738P. |
| PR | 24-SEP-1998; | 98US-0101739P. |
| PR | 24-SEP-1998; | 98US-0101743P. |
| PR | 24-SEP-1998; | 98US-0101922P. |
| PR | 25-SEP-1998; | 98US-0101786P. |
| PR | 29-SEP-1998; | 98US-0102240P. |
| PR | 29-SEP-1998; | 98US-0102240P. |
| PR | 29-SEP-1998; | 98US-0102330P. |
| PR | 29-SEP-1998; | 98US-0102331P. |
| PR | 30-SEP-1998; | 98US-0102487P. |
| PR | 30-SEP-1998; | 98US-0102570P. |
| PR | 30-SEP-1998; | 98US-0102571P. |
| PR | 01-OCT-1998; | 98US-0102684P. |
| PR | 01-OCT-1998; | 98US-0102687P. |
| <hr/> | | |
| Query Match 94.3%; Score 417; DB 6; Length 440; | | |
| Best Local Similarity 100.0%; Pred. No. 0; | | |
| Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0; | | |
| Qy | 26 | LRLLLLLSAALPTGQGNLFTKQVTVIEGEVATISCVNKSDDSVIQLLNPRTIY 85 |
| Db | 24 | LRLLLLLSAALPTGQGNLFTKQVTVIEGEVATISCVNKSDDSVIQLLNPRTIY 83 |
| Qy | 86 | FRDPRPKDSRFQLLNFSSELKVSJTNVSIISDEGRYFCQLYTDPPOESYTTITVLVPPR 145 |
| Db | 84 | FRDPRPKDSRFQLLNFSSELKVSJTNVSIISDEGRYFCQLYTDPPOESYTTITVLVPPR 143 |
| Qy | 146 | NLMIDIQKDTAVEGEIEVNCTAMASKPATIRWFKGNTLKGKSEVEESDMYTVTSQ 205 |
| Db | 144 | NLMIDIQKDTAVEGEIEVNCTAMASKPATIRWFKGNTLKGKSEVEESDMYTVTSQ 203 |
| Qy | 206 | MLKVHKEDDGPVVICQVEHPAVTGNLQRYLYVQYKPVQVHIQWYTPLOGLTREGDALEL 265 |
| Db | 204 | MLKVHKEDDGPVVICQVEHPAVTGNLQRYLYVQYKPVQVHIQWYTPLOGLTREGDALEL 263 |
| Qy | 266 | TCEAIKGPQPMVMTWVRVDDDEMPQHAVLSGPNLFINNKNKTNGTYRCEASNIVGKAHSD 325 |
| Db | 264 | TCEAIKGPQPMVMTWVRVDDDEMPQHAVLSGPNLFINNKNKTNGTYRCEASNIVGKAHSD 323 |
| Qy | 326 | YMLVYVDPPTTIPPTTT 385 |
| Db | 324 | YMLVYVDPPTTIPPTTT 383 |
| Qy | 386 | FAMLCLLIILGRYFARHKGTYFTHKAGDADAADATAIINAEQQNNSEKKEYFI 442 |
| Db | 384 | FAMLCLLIILGRYFARHKGTYFTHKAGDADAADATAIINAEQQNNSEKKEYFI 440 |
| <hr/> | | |
| RESULT 41 | | |
| ABO18822 | | |
| ID ABO18822 standard; protein; 440 AA. | | |

XX ABO18822; PR 15-MAY-1998; 98US-0085700P.
XX AC PR 18-MAY-1998; 98US-0086023P.
XX DT PR 22-MAY-1998; 98US-0086392P.
XX DE PR 22-MAY-1998; 98US-0086486P.
XX DE PR 28-MAY-1998; 98US-0087098P.
XX DE PR 28-MAY-1998; 98US-0087208P.
XX DE PR 02-JUN-1998; 98US-0087609P.
XX DE PR 02-JUN-1998; 98US-0087759P.
XX DE PR 03-JUN-1998; 98US-0087827P.
XX DE PR 04-JUN-1998; 98US-0088025P.
XX DE PR 04-JUN-1998; 98US-0088028P.
XX DE PR 04-JUN-1998; 98US-0088029P.
XX DE PR 04-JUN-1998; 98US-0088033P.
XX DE PR 04-JUN-1998; 98US-0088326P.
XX DE PR 05-JUN-1998; 98US-0088167P.
XX DE PR 05-JUN-1998; 98US-0088202P.
XX DE PR 05-JUN-1998; 98US-0088212P.
XX DE PR 05-JUN-1998; 98US-0088217P.
XX DE PR 09-JUN-1998; 98US-0088655P.
XX DE PR 10-JUN-1998; 98US-0088722P.
XX DE PR 10-JUN-1998; 98US-0088738P.
XX DE PR 10-JUN-1998; 98US-0088740P.
XX DE PR 10-JUN-1998; 98US-0088811P.
XX DE PR 10-JUN-1998; 98US-0088824P.
XX DE PR 10-JUN-1998; 98US-0088825P.
XX DE PR 10-JUN-1998; 98US-0088826P.
XX DE PR 11-JUN-1998; 98US-0088861P.
XX DE PR 11-JUN-1998; 98US-0088863P.
XX DE PR 11-JUN-1998; 98US-0088876P.
XX DE PR 12-JUN-1998; 98US-0089090P.
XX DE PR 12-JUN-1998; 98US-0089105P.
XX DE PR 16-JUN-1998; 98US-0089512P.
XX DE PR 16-JUN-1998; 98US-0089514P.
XX DE PR 17-JUN-1998; 98US-0089538P.
XX DE PR 17-JUN-1998; 98US-0089598P.
XX DE PR 17-JUN-1998; 98US-0089653P.
XX DE PR 18-JUN-1998; 98US-0089908P.
XX DE PR 19-JUN-1998; 98US-0089952P.
XX DE PR 22-JUN-1998; 98US-0090246P.
XX DE PR 22-JUN-1998; 98US-0090252P.
XX DE PR 22-JUN-1998; 98US-0090254P.
XX DE PR 24-JUN-1998; 98US-0090429P.
XX DE PR 24-JUN-1998; 98US-0090435P.
XX DE PR 24-JUN-1998; 98US-0090444P.
XX DE PR 24-JUN-1998; 98US-0090461P.
XX DE PR 24-JUN-1998; 98US-0090535P.
XX DE PR 24-JUN-1998; 98US-0090540P.
XX DE PR 25-JUN-1998; 98US-0090676P.
XX DE PR 25-JUN-1998; 98US-0090678P.
XX DE PR 25-JUN-1998; 98US-0090688P.
XX DE PR 25-JUN-1998; 98US-0090690P.
XX DE PR 25-JUN-1998; 98US-0090695P.
XX DE PR 25-JUN-1998; 98US-0090696P.
XX DE PR 26-JUN-1998; 98US-00105413.
XX DE PR 26-JUN-1998; 98US-0090862P.
XX DE PR 26-JUN-1998; 98US-0090863P.
XX DE PR 26-JUN-1998; 98US-0091010P.
XX DE PR 01-JUL-1998; 98US-0091359P.
XX DE PR 01-JUL-1998; 98US-0091544P.
XX DE PR 02-JUL-1998; 98US-0091478P.
XX DE PR 02-JUL-1998; 98US-0091486P.
XX DE PR 02-JUL-1998; 98US-0091626P.
XX DE PR 02-JUL-1998; 98US-0091628P.
XX DE PR 02-JUL-1998; 98US-0091632P.
XX DE PR 24-JUL-1998; 98US-0094006P.
XX DE PR 04-AUG-1998; 98US-0095282P.
XX DE PR 10-AUG-1998; 98US-0095998P.
XX DE PR 10-AUG-1998; 98US-0096012P.
XX DE PR 17-AUG-1998; 98US-0096757P.
XX DE PR 17-AUG-1998; 98US-0096766P.
XX DE PR 17-AUG-1998; 98US-0096867P.
XX DE PR 17-AUG-1998; 98US-0096891P.

XX Human; secreted and transmembrane protein; PRO; TNF-alpha;
XX tumour necrosis factor alpha; chondrocyte cell; tumour; gene therapy;
XX tissue typing; adrenal tumour; lung tumour; colon tumour; breast tumour;
XX prostate tumour; rectal tumour; cervical tumour; liver tumour.

XX Homo sapiens.
XX US2003044925-A1.
XX 06-MAR-2003.
XX 25-JUN-2002; 2002US-00180560.
XX 18-SEP-1997; 97US-0059263P.
XX 18-SEP-1997; 97US-0059266P.
XX 17-OCT-1997; 97US-0062250P.
XX 21-OCT-1997; 97US-0063486P.
XX 24-OCT-1997; 97US-00631120P.
XX 24-OCT-1997; 97US-00631121P.
XX 28-OCT-1997; 97US-0063540P.
XX 28-OCT-1997; 97US-0063541P.
XX 28-OCT-1997; 97US-0063544P.
XX 28-OCT-1997; 97US-0063564P.
XX 29-OCT-1997; 97US-0063734P.
XX 31-OCT-1997; 97US-0063870P.
XX 31-OCT-1997; 97US-0064103P.
XX 13-NOV-1997; 97US-0065311P.
XX 21-NOV-1997; 97US-00661120P.
XX 24-NOV-1997; 97US-0066466P.
XX 24-NOV-1997; 97US-0066772P.
XX 11-DEC-1997; 97US-0069335P.
XX 12-DEC-1997; 97US-0069425P.
XX 17-DEC-1997; 97US-0069870P.
XX 18-DEC-1997; 97US-0068017P.
XX 10-MAR-1998; 98US-0077450P.
XX 11-MAR-1998; 98US-0077632P.
XX 11-MAR-1998; 98US-0077649P.
XX 20-MAR-1998; 98US-0078886P.
XX 20-MAR-1998; 98US-0078939P.
XX 27-MAR-1998; 98US-0079664P.
XX 27-MAR-1998; 98US-0079786P.
XX 31-MAR-1998; 98US-0080107P.
XX 31-MAR-1998; 98US-0080194P.
XX 01-APR-1998; 98US-0080327P.
XX 01-APR-1998; 98US-0080333P.
XX 08-APR-1998; 98US-0081049P.
XX 08-APR-1998; 98US-0081070P.
XX 09-APR-1998; 98US-0081195P.
XX 15-APR-1998; 98US-0081838P.
XX 21-APR-1998; 98US-0082568P.
XX 21-APR-1998; 98US-0082569P.
XX 22-APR-1998; 98US-0082704P.
XX 22-APR-1998; 98US-0082797P.
XX 28-APR-1998; 98US-0083322P.
XX 29-APR-1998; 98US-0083495P.
XX 29-APR-1998; 98US-0083496P.
XX 29-APR-1998; 98US-0083499P.
XX 29-APR-1998; 98US-0083559P.
XX 05-MAY-1998; 98US-0084366P.
XX 06-MAY-1998; 98US-0084414P.
XX 07-MAY-1998; 98US-0084639P.
XX 07-MAY-1998; 98US-0084640P.
XX 07-MAY-1998; 98US-0084643P.
XX 15-MAY-1998; 98US-0085579P.
XX 15-MAY-1998; 98US-0085580P.
XX 15-MAY-1998; 98US-0085582P.

CC stimulating release of tumour necrosis factor-alpha (TNF-alpha) from
CC human blood and may thus be used in the treatment of conditions in which
CC enhanced TNF-alpha release would be beneficial. They are also useful for
CC stimulating the proliferation or differentiation of chondrocytes and as
CC such may be used in the treatment of various bone and/or cartilage
CC disorders such as arthritis and sports injuries. The PRO polypeptides may
CC be used in a method for detecting the presence of a tumour (e.g., an
CC adrenal tumour, lung tumour, colon tumour, breast tumour, prostate
CC tumour, rectal tumour, cervical tumour or liver tumour) in a mammal. This
CC method involves comparing the level of expression of the PRO polypeptide
CC in test and control samples, where a higher level of expression of PRO
CC polypeptide in the test sample as compared to the control sample is
CC indicative of the presence of a tumour. The PRO polypeptides are
CC additionally useful for in drug screening to identify agonists and
CC antagonists of PRO polypeptides. PRO nucleic acids are useful as
CC hybridisation probes (for isolation of cDNA molecules), in chromosome and
CC gene mapping, in the generation of antisense RNA and DNA and in gene
CC therapy. The nucleic acids can also be used for mapping genes encoding
CC PRO polypeptides, for genetic analysis of individuals with genetic
CC disorders, and for generating either transgenic animals or knock-out
CC animals which are useful in the development and screening of
CC therapeutically useful compounds. Sequences ABR78227-ABR78331 represent
CC the human PRO secreted/transmembrane polypeptides of the invention. Note:
CC The sequence data for this patent is also available in electronic format
CC from USPTO at seqdata.uspto.gov/sequence.html

SQ Sequence 440 AA;

Query Match 94.3%; Score 417; DB 6; Length 440;

Best Local Similarity 100.0%; Pred. No. 0;

Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 26 LRLLLLSAALPTGQGNLFKQVTVIEGEVATISCCVNKSDSDSVIQLLNPRTIY 85
Db 24 LRLLLLSAALPTGQGNLFKQVTVIEGEVATISCCVNKSDSDSVIQLLNPRTIY 83
Qy 86 FRFRPLKDSRFOLLNFSSELKVSILTNVISDSGRYFCOLYTDPPQESYTTITVLVPPR 145
Db 84 FRFRPLKDSRFOLLNFSSELKVSILTNVISDSGRYFCOLYTDPPQESYTTITVLVPPR 143
Qy 146 NLMDIQKTAVEGEEIEVNCTAMASKPATTIRWFGNTKELKGKSEVEESDMYTVTSQ 205
Db 144 NLMDIQKTAVEGEEIEVNCTAMASKPATTIRWFGNTKELKGKSEVEESDMYTVTSQ 203
Qy 206 MLKVHKEDDGVPVTCVEHPAVTGNLQRYLYEVQYKPOVHIQNTYPLQGLTREGDALE 265
Db 204 MLKVHKEDDGVPVTCVEHPAVTGNLQRYLYEVQYKPOVHIQNTYPLQGLTREGDALE 263
Qy 266 TCEAIGKPPQPMVTVWVRVDDMPQHAVLSGPNLFINLNKTDNGTYRCEASNIVGKAHSD 325
Db 264 TCEAIGKPPQPMVTVWVRVDDMPQHAVLSGPNLFINLNKTDNGTYRCEASNIVGKAHSD 323
Qy 326 YMLVYDPPPTTIPPTTTTTTTTTTTTTTTTTTTTTITDTSRAGEGSGIRAVDHVIGGVAVV 385
Db 324 YMLVYDPPPTTIPPTTTTTTTTTTTTTTTTTTTTTITDTSRAGEGSGIRAVDHVIGGVAVV 383
Qy 386 FAMLCLLIILGRYFARHKGYFTFEAKGADADADATTAIINAEQQNNSEKKEYFI 442
Db 384 FAMLCLLIILGRYFARHKGYFTFEAKGADADADATTAIINAEQQNNSEKKEYFI 440

RESULT 43

ABU64926

ID ABU64926 standard; protein; 440 AA.

XX AC ABU64926;

DT 15-MAY-2003 (first entry)

XX DE Human secreted/transmembrane protein PRO355.

XX DE Human; PRO; secreted protein; transmembrane protein;

KW Cornelia de Lange syndrome; gene therapy; immune disorder;

KW inflammatory disease; organ failure; atherosclerosis; cardiac injury;
KW infertility; birth defect; premature aging; cardiac injury; AIDS; cancer;
KW diabetic complication.
XX Homo sapiens.
XX US2002173463-A1.
PN 21-NOV-2002.
XX 31-AUG-2001; 2001US-00944944.
XX 03-DEC-1997; 97US-0067411P.
PR 11-DEC-1997; 97US-0069278P.
PR 11-DEC-1997; 97US-0069334P.
PR 11-DEC-1997; 97US-0069335P.
PR 12-DEC-1997; 97US-0069425P.
PR 16-DEC-1997; 97US-0069694P.
PR 16-DEC-1997; 97US-0069696P.
PR 16-DEC-1997; 97US-0069702P.
PR 17-DEC-1997; 97US-0069870P.
PR 17-DEC-1997; 97US-0069873P.
PR 18-DEC-1997; 97US-0068017P.
PR 05-JAN-1998; 98US-0070440P.
PR 09-FEB-1998; 98US-0074086P.
PR 09-FEB-1998; 98US-0074092P.
PR 25-FEB-1998; 98US-0075945P.
PR 16-SEP-1998; 98WO-US019330.
PR 01-DEC-1998; 98WO-US025108.
PR 16-DEC-1998; 98US-0112850P.
PR 22-DEC-1998; 98US-0113296P.
PR 02-JUN-1999; 99WO-US012252.
PR 28-JUL-1999; 98US-0146222P.
PR 15-SEP-1999; 99WO-US021090.
PR 30-NOV-1999; 99WO-US028313.
PR 01-DEC-1999; 99WO-US028409.
PR 01-DEC-1999; 99WO-US028301.
PR 16-DEC-1999; 99WO-US030095.
PR 11-FEB-2000; 2000WO-US03565.
PR 22-FEB-2000; 2000WO-US04414.
PR 02-MAR-2000; 2000WO-US005841.
PR 30-MAR-2000; 2000WO-US008439.
PR 22-MAY-2000; 2000WO-US014042.
PR 28-JUL-2000; 2000WO-US020710.
PR 01-DEC-2000; 2000WO-US032678.
PR 28-FEB-2001; 2001WO-US006520.
PR 25-MAY-2001; 2001US-00866028.

(GETH) GENENTECH INC.

Baker KP, Botstein D, Eaton DL, Ferrara N, Filvaroff E;
Gerritsen ME, Goddard A, Godowski PJ, Grimaldi JC, Gurney AL;
Hillan KJ, Kljavin IJ, Napier MA, Roy MA, Tumas D, Wood WI;

WPI; 2003-311003/30.

N-PSDB; ABX96814.

New transmembrane polypeptides and polynucleotides useful for chromosome
identification, tissue typing, gene therapy, in chromosome and gene
mapping, or as molecular weight markers.

Claim 12; Fig 24; 172pp; English.

The invention relates to an isolated nucleic acid encoding a secreted/
transmembrane polypeptide (designated as PRO proteins). 15 PRO
polypeptides and their encoding polynucleotides are disclosed. Also
included are a vector comprising the PRO nucleic acid, a host cell
comprising the vector, a process for producing a PRO polypeptide (by
culturing the host cell under conditions for the expression of the PRO
polypeptide, and recovering the PRO polypeptide from the cell culture, an
isolated polypeptide having at least 80% amino acid sequence identity to
the PRO polypeptides, a chimeric molecule comprising PRO fused to a
heterologous amino acid sequence and an antibody which specifically binds

to PRO. The PRO nucleotide sequences are useful as hybridisation probes, in chromosome and gene mapping, in generating sense and antisense RNA or DNA, in generating transgenic or knock-out animals which can be used in the development and screening of therapeutically useful reagents, and in gene therapy. The polypeptides may be used as molecular weight markers for protein electrophoresis purposes. The PRO polypeptides and nucleic acids may also be used for chromosome identification, and tissue typing. PRO241 (identified as Chordin) is a candidate gene for Cornelia de Lange syndrome. Other PRO proteins are variously implicated in immune disorders, inflammatory disease, organ failure, atherosclerosis, cardiac injury, infertility, birth defects, premature aging, cardiac injury, AIDS, cancer and diabetic complications. The present sequence represents a PRO protein

Sequence 440 AA;

| Query Match | 94.3% | Score 417 | DB 6 | Length 440 |
|-----------------------|----------------|------------------|-----------------------------|---------------------------------------|
| Best Local Similarity | 100.0% | Pred. No. 0 | | |
| Matches 417 | Conservative 0 | Mismatches 0 | Indels 0 | Gaps 0 |
| Qy | 26 | LRLLLLFSAALIP | TDGGQNLFTKDVTVIEGEVATIS | CVWNKSDSDSVIOLLNPNRRTIY 85 |
| Db | 24 | LRLLLLFSAALIP | TDGGQNLFTKDVTVIEGEVATIS | CVWNKSDSDSVIOLLNPNRRTIY 83 |
| Qy | 86 | FRDPRPLKDSRFOLLN | SSSELKVSLSFNVSISDEGRVFCOLY | TDPPQESYTTITVLVPPR 145 |
| Db | 84 | FRDPRPLKDSRFOLLN | SSSELKVSLSFNVSISDEGRVFCOLY | TDPPQESYTTITVLVPPR 143 |
| Qy | 146 | NLMIDIOKDTAV | GEETEVNCTAMASKPATTIRWFKGN | TCLKGKSEVEESDMYTVTSOL 205 |
| Db | 144 | NLMIDIOKDTAV | GEETEVNCTAMASKPATTIRWFKGN | TCLKGKSEVEESDMYTVTSOL 203 |
| Qy | 206 | MLKVHKEDDDGVPVI | QCVEHPAVTGNLQORYLEVQYKPQVHI | QMTYPLQGLITREGDALEL 265 |
| Db | 204 | MLKVHKEDDGVPVI | QCVEHPAVTGNLQORYLEVQYKPQVHI | QMTYPLQGLITREGDALEL 263 |
| Qy | 266 | TCEAIGKQPQVMV | TWRVDDMPQHAVLSGNPLFINNLK | NTDNGTYCEASNIVGKAHSD 325 |
| Db | 264 | TCEAIGKQPQVMV | TWRVDDMPQHAVLSGNPLFINNLK | NTDNGTYCEASNIVGKAHSD 323 |
| Qy | 326 | YMLVYVDPPTTIP | PTTTTTTTTTTTTTTTTTTTTTTTTT | IIITDSRAGEBGSIRAVDHAVIGGVAVV 385 |
| Db | 324 | YMLVYVDPPTTIP | PTTTTTTTTTTTTTTTTTTTTTTTTT | IIITDSRAGEBGSIRAVDHAVIGGVAVV 383 |
| Qy | 386 | FAMLCLLII | ILGRYPARHKGTVYF | THEAKGADDAADATTAINAEQGQNSSEKKEYFI 442 |
| Db | 384 | FAMLCLLII | ILGRYPARHKGTVYF | THEAKGADDAADATTAINAEQGQNSSEKKEYFI 440 |

| | | |
|-----------|-----------|---|
| RESULT 44 | | |
| ABU84979 | | |
| ID | ABU84979 | standard; protein; 440 AA. |
| XX | ABU84979; | |
| XX | AC | |
| XX | XX | |
| XX | DT | 30-JUN-2003 (first entry) |
| XX | | Novel human secreted and transmembrane protein PR0355. |
| XX | | Human; secreted and transmembrane protein; PRO; cytostatic; gene therapy; |
| KW | KW | chondrocyte stimulator; chromosome mapping; gene mapping; |
| KW | KW | transgenic animal; knock-out animal; tumour. |
| XX | XX | |
| XX | OS | Homo sapiens. |
| XX | XX | |
| PN | PN | US2003032114-A1. |
| XX | XX | |
| PD | PD | 13-FEB-2003. |
| XX | XX | |
| PF | PF | 20-JUN-2002; 2002US-00176919. |
| XX | XX | |
| PR | PR | 18-SEP-1997; 97US-0059263P. |
| PR | PR | 18-SEP-1997; 97US-0059266P. |

PR 10-JUN-1998; 98US-0088811P.
PR 10-JUN-1998; 98US-0088824P.
PR 10-JUN-1998; 98US-0088825P.
PR 10-JUN-1998; 98US-0088826P.
PR 11-JUN-1998; 98US-0088861P.
PR 11-JUN-1998; 98US-0088863P.
PR 11-JUN-1998; 98US-0088876P.
PR 12-JUN-1998; 98US-0088900P.
PR 12-JUN-1998; 98US-0089105P.
PR 16-JUN-1998; 98US-0089512P.
PR 16-JUN-1998; 98US-0089514P.
PR 17-JUN-1998; 98US-0089538P.
PR 17-JUN-1998; 98US-0089598P.
PR 17-JUN-1998; 98US-0089653P.
PR 18-JUN-1998; 98US-0089908P.
PR 19-JUN-1998; 98US-0089952P.
PR 22-JUN-1998; 98US-0090246P.
PR 22-JUN-1998; 98US-0090254P.
PR 22-JUN-1998; 98US-0090254P.
PR 24-JUN-1998; 98US-0090429P.
PR 24-JUN-1998; 98US-0090435P.
PR 24-JUN-1998; 98US-0090444P.
PR 24-JUN-1998; 98US-0090451P.
PR 24-JUN-1998; 98US-0090535P.
PR 24-JUN-1998; 98US-0090540P.
PR 25-JUN-1998; 98US-0090676P.
PR 25-JUN-1998; 98US-0090678P.
PR 25-JUN-1998; 98US-0090688P.
PR 25-JUN-1998; 98US-0090690P.
PR 25-JUN-1998; 98US-0090694P.
PR 25-JUN-1998; 98US-0090695P.
PR 25-JUN-1998; 98US-0090696P.
PR 26-JUN-1998; 98US-00105413.
PR 26-JUN-1998; 98US-0090862P.
PR 26-JUN-1998; 98US-0090863P.
PR 26-JUN-1998; 98US-0091010P.
PR 01-JUL-1998; 98US-0091359P.
PR 02-JUL-1998; 98US-0091544P.
PR 02-JUL-1998; 98US-0091478P.
PR 02-JUL-1998; 98US-0091486P.
PR 02-JUL-1998; 98US-0091626P.
PR 02-JUL-1998; 98US-0091628P.
PR 02-JUL-1998; 98US-0091632P.
PR 24-JUL-1998; 98US-0094006P.
PR 04-AUG-1998; 98US-0095282P.
PR 10-AUG-1998; 98US-0095998P.
PR 10-AUG-1998; 98US-0096012P.
PR 17-AUG-1998; 98US-0096757P.
PR 17-AUG-1998; 98US-0096766P.
PR 17-AUG-1998; 98US-0096867P.
PR 17-AUG-1998; 98US-0096891P.
PR 17-AUG-1998; 98US-0096897P.
PR 18-AUG-1998; 98US-0096949P.
PR 18-AUG-1998; 98US-0096959P.
PR 18-AUG-1998; 98US-0097022P.
PR 26-AUG-1998; 98US-0097952P.
PR 26-AUG-1998; 98US-0097954P.
PR 26-AUG-1998; 98US-0097955P.
PR 26-AUG-1998; 98US-0097971P.
PR 26-AUG-1998; 98US-0097974P.
PR 26-AUG-1998; 98US-0098014P.
PR 01-SEP-1998; 98US-0098716P.
PR 01-SEP-1998; 98US-0098723P.
PR 02-SEP-1998; 98US-0098803P.
PR 02-SEP-1998; 98US-0098821P.
PR 02-SEP-1998; 98US-0098843P.
PR 09-SEP-1998; 98US-0099602P.
PR 10-SEP-1998; 98US-0099741P.
PR 10-SEP-1998; 98US-0099754P.
PR 10-SEP-1998; 98US-0099763P.
PR 10-SEP-1998; 98US-0099812P.
PR 15-SEP-1998; 98US-0100388P.
PR 16-SEP-1998; 98US-0100662P.

PR 16-SEP-1998; 98US-0100664P.
PR 16-SEP-1998; 98US-0101751P.
PR 16-SEP-1998; 98WO-US0191330.
PR 17-SEP-1998; 98US-0100683P.
PR 17-SEP-1998; 98US-0100684P.
PR 17-SEP-1998; 98US-0100919P.
PR 17-SEP-1998; 98US-0100930P.
PR 18-SEP-1998; 98US-0100849P.
PR 18-SEP-1998; 98US-0101014P.
PR 18-SEP-1998; 98US-0101068P.
PR 23-SEP-1998; 98US-0101471P.
PR 23-SEP-1998; 98US-0101472P.
PR 23-SEP-1998; 98US-0101475P.
PR 23-SEP-1998; 98US-0101477P.
PR 24-SEP-1998; 98US-0101738P.
PR 24-SEP-1998; 98US-0101739P.
PR 24-SEP-1998; 98US-0101743P.
PR 24-SEP-1998; 98US-0101922P.
PR 25-SEP-1998; 98US-0101786P.
PR 29-SEP-1998; 98US-0102207P.
PR 29-SEP-1998; 98US-0102240P.
PR 29-SEP-1998; 98US-0102330P.
PR 29-SEP-1998; 98US-0102331P.
PR 30-SEP-1998; 98US-0102487P.
PR 30-SEP-1998; 98US-0102570P.
PR 30-SEP-1998; 98US-0102571P.
PR 01-OCT-1998; 98US-0102684P.
PR 01-OCT-1998; 98US-0102687P.
PR 02-OCT-1998; 98US-0102965P.
PR 06-OCT-1998; 98US-0103258P.
PR 06-OCT-1998; 98US-0103449P.
PR 07-OCT-1998; 98US-00168978.

Query Match 94.3%; Score 417; DB 6; Length 440;

Best Local Similarity 100.0%; Pred. No. 0;

Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 26 LRLLLLSAAALPTGDKGNLFKDVTVIEGEVATISCVNKSDDSVIQLNPNQTIY 85

DB 24 LRLLLLSAAALPTGDKGNLFKDVTVIEGEVATISCVNKSDDSVIQLNPNQTIY 83

QY 86 FRDRLKDSRFOLLNFSSELKVSITNVISIDEGRYFCQLYTDPPOESYTTITVLVPPR 145

DB 84 FRDRLKDSRFOLLNFSSELKVSITNVISIDEGRYFCQLYTDPPOESYTTITVLVPPR 143

QY 146 NLMIDIQKDTAVEGEIEVNCTAMASKPATITIRWFKGNTLKGKSEVEESDMYVTSQL 205

DB 144 NLMIDIQKDTAVEGEIEVNCTAMASKPATITIRWFKGNTLKGKSEVEESDMYVTSQL 203

QY 206 MLKVHKEDDGPVICQVEHPAVTGNLQORYLEVQYKPOVHIQMTYPLQGLTREGDALEL 265

DB 204 MLKVHKEDDGPVICQVEHPAVTGNLQORYLEVQYKPOVHIQMTYPLQGLTREGDALEL 263

QY 266 TCEAIGKQPQVMVTVVRVDEMPQHAVLGSPNLFINNKNKTNGTYRCEASNIVGKAHSD 325

DB 264 TCEAIGKQPQVMVTVVRVDEMPQHAVLGSPNLFINNKNKTNGTYRCEASNIVGKAHSD 323

QY 326 YMLYVYDPPPTTIPPPPTTT 385

DB 324 YMLYVYDPPPTTIPPPPTTT 383

QY 386 FAMLCLLIILGRYFARHKGTYFTHEAKGADDAADADATAIINAEQQNNSEKKEYFI 442

DB 384 FAMLCLLIILGRYFARHKGTYFTHEAKGADDAADADATAIINAEQQNNSEKKEYFI 440

RESULT 45

ABO00118

ID ABO00118 standard; protein; 440 AA.

XX ABO00118;

XX

DT 06-AUG-2003 (first entry)

XX Novel human secreted and transmembrane protein PRO355.
DE Human; gene therapy; tumour necrosis factor alpha; TNF-alpha;
XX chondrocyte stimulation; tumour; tissue typing.
KW Homo sapiens.
XX US2003032101-A1.
PN 13-FEB-2003.
XX 17-JUN-2002; 2002US-00173695.
XX 18-SEP-1997; 97US-0059263P.
PR 18-SEP-1997; 97US-0059266P.
PR 17-OCT-1997; 97US-0062250P.
PR 21-OCT-1997; 97US-0063486P.
PR 24-OCT-1997; 97US-0063120P.
PR 24-OCT-1997; 97US-0063121P.
PR 28-OCT-1997; 97US-0063540P.
PR 28-OCT-1997; 97US-0063541P.
PR 28-OCT-1997; 97US-0063544P.
PR 28-OCT-1997; 97US-0063564P.
PR 29-OCT-1997; 97US-0063734P.
PR 31-OCT-1997; 97US-0063870P.
PR 31-OCT-1997; 97US-0064103P.
PR 13-NOV-1997; 97US-0065311P.
PR 21-NOV-1997; 97US-0066120P.
PR 24-NOV-1997; 97US-0066466P.
PR 24-NOV-1997; 97US-0066772P.
PR 11-DEC-1997; 97US-0069335P.
PR 12-DEC-1997; 97US-0069425P.
PR 17-DEC-1997; 97US-0069870P.
PR 18-DEC-1997; 97US-0068017P.
PR 10-MAR-1998; 98US-0077450P.
PR 11-MAR-1998; 98US-0077632P.
PR 11-MAR-1998; 98US-0077649P.
PR 20-MAR-1998; 98US-0078886P.
PR 20-MAR-1998; 98US-0078939P.
PR 27-MAR-1998; 98US-0079664P.
PR 27-MAR-1998; 98US-0079786P.
PR 31-MAR-1998; 98US-0080107P.
PR 31-MAR-1998; 98US-0080194P.
PR 01-APR-1998; 98US-0080327P.
PR 01-APR-1998; 98US-0080333P.
PR 08-APR-1998; 98US-0081049P.
PR 08-APR-1998; 98US-0081070P.
PR 09-APR-1998; 98US-0081195P.
PR 15-APR-1998; 98US-0081838P.
PR 21-APR-1998; 98US-0082568P.
PR 21-APR-1998; 98US-0082569P.
PR 22-APR-1998; 98US-0082704P.
PR 22-APR-1998; 98US-0082797P.
PR 28-APR-1998; 98US-0083322P.
PR 28-APR-1998; 98US-0083495P.
PR 29-APR-1998; 98US-0083496P.
PR 29-APR-1998; 98US-0083499P.
PR 29-APR-1998; 98US-0083559P.
PR 05-MAY-1998; 98US-0084366P.
PR 06-MAY-1998; 98US-0084414P.
PR 07-MAY-1998; 98US-0084639P.
PR 07-MAY-1998; 98US-0084640P.
PR 07-MAY-1998; 98US-0084643P.
PR 15-MAY-1998; 98US-0085579P.
PR 15-MAY-1998; 98US-0085580P.
PR 15-MAY-1998; 98US-0085582P.
PR 15-MAY-1998; 98US-0085700P.
PR 18-MAY-1998; 98US-0086023P.
PR 22-MAY-1998; 98US-0086392P.
PR 22-MAY-1998; 98US-0086486P.
PR 28-MAY-1998; 98US-0087098P.
PR 28-MAY-1998; 98US-0087208P.
PR 02-JUN-1998; 98US-0087609P.
PR 02-JUN-1998; 98US-0087759P.
PR 03-JUN-1998; 98US-0087827P.
PR 04-JUN-1998; 98US-0088025P.
PR 04-JUN-1998; 98US-0088028P.
PR 04-JUN-1998; 98US-0088029P.
PR 04-JUN-1998; 98US-0088033P.
PR 04-JUN-1998; 98US-0088326P.
PR 05-JUN-1998; 98US-0088167P.
PR 05-JUN-1998; 98US-0088202P.
PR 05-JUN-1998; 98US-0088212P.
PR 05-JUN-1998; 98US-0088217P.
PR 05-JUN-1998; 98US-0088655P.
PR 10-JUN-1998; 98US-0088722P.
PR 10-JUN-1998; 98US-0088738P.
PR 10-JUN-1998; 98US-0088740P.
PR 10-JUN-1998; 98US-0088811P.
PR 10-JUN-1998; 98US-0088824P.
PR 10-JUN-1998; 98US-0088825P.
PR 10-JUN-1998; 98US-0088826P.
PR 11-JUN-1998; 98US-0088861P.
PR 11-JUN-1998; 98US-0088863P.
PR 11-JUN-1998; 98US-0088876P.
PR 12-JUN-1998; 98US-0089090P.
PR 12-JUN-1998; 98US-0089105P.
PR 16-JUN-1998; 98US-0089512P.
PR 16-JUN-1998; 98US-0089514P.
PR 17-JUN-1998; 98US-0089538P.
PR 17-JUN-1998; 98US-0089598P.
PR 17-JUN-1998; 98US-0089653P.
PR 18-JUN-1998; 98US-0089908P.
PR 19-JUN-1998; 98US-0089952P.
PR 22-JUN-1998; 98US-0090246P.
PR 22-JUN-1998; 98US-0090252P.
PR 22-JUN-1998; 98US-0090254P.
PR 24-JUN-1998; 98US-0090429P.
PR 24-JUN-1998; 98US-0090435P.
PR 24-JUN-1998; 98US-0090444P.
PR 24-JUN-1998; 98US-0090461P.
PR 24-JUN-1998; 98US-0090535P.
PR 24-JUN-1998; 98US-0090540P.
PR 25-JUN-1998; 98US-0090676P.
PR 25-JUN-1998; 98US-0090678P.
PR 25-JUN-1998; 98US-0090688P.
PR 25-JUN-1998; 98US-0090690P.
PR 25-JUN-1998; 98US-0090694P.
PR 25-JUN-1998; 98US-0090695P.
PR 25-JUN-1998; 98US-0090696P.
PR 26-JUN-1998; 98US-00105413.
PR 26-JUN-1998; 98US-0090862P.
PR 26-JUN-1998; 98US-0090863P.
PR 26-JUN-1998; 98US-0091010P.
PR 01-JUL-1998; 98US-0091359P.
PR 01-JUL-1998; 98US-0091544P.
PR 02-JUL-1998; 98US-0091478P.
PR 02-JUL-1998; 98US-0091486P.
PR 02-JUL-1998; 98US-0091626P.
PR 02-JUL-1998; 98US-0091628P.
PR 02-JUL-1998; 98US-0091632P.
PR 24-JUL-1998; 98US-0094006P.
PR 04-AUG-1998; 98US-0095282P.
PR 10-AUG-1998; 98US-0095998P.
PR 10-AUG-1998; 98US-0096012P.
PR 17-AUG-1998; 98US-0096757P.
PR 17-AUG-1998; 98US-0096766P.
PR 17-AUG-1998; 98US-0096867P.
PR 17-AUG-1998; 98US-0096891P.
PR 17-AUG-1998; 98US-0096897P.
PR 18-AUG-1998; 98US-0096949P.
PR 18-AUG-1998; 98US-0096959P.
PR 18-AUG-1998; 98US-0097022P.
PR 26-AUG-1998; 98US-0097952P.
PR 26-AUG-1998; 98US-0097954P.

PR 28-APR-1998; 98US-0083322P.
PR 29-APR-1998; 98US-0083496P.
PR 29-APR-1998; 98US-0083496P.
PR 29-APR-1998; 98US-0083499P.
PR 05-MAY-1998; 98US-0083559P.
PR 06-MAY-1998; 98US-0084366P.
PR 07-MAY-1998; 98US-0084414P.
PR 07-MAY-1998; 98US-0084639P.
PR 07-MAY-1998; 98US-0084640P.
PR 15-MAY-1998; 98US-0084643P.
PR 15-MAY-1998; 98US-0085579P.
PR 15-MAY-1998; 98US-0085580P.
PR 15-MAY-1998; 98US-0085582P.
PR 18-MAY-1998; 98US-0085700P.
PR 22-MAY-1998; 98US-0086023P.
PR 22-MAY-1998; 98US-0086392P.
PR 28-MAY-1998; 98US-0086486P.
PR 28-MAY-1998; 98US-0087098P.
PR 02-JUN-1998; 98US-0087208P.
PR 02-JUN-1998; 98US-0087609P.
PR 03-JUN-1998; 98US-0087759P.
PR 04-JUN-1998; 98US-0087827P.
PR 04-JUN-1998; 98US-0088028P.
PR 04-JUN-1998; 98US-0088029P.
PR 04-JUN-1998; 98US-0088033P.
PR 04-JUN-1998; 98US-0088036P.
PR 05-JUN-1998; 98US-0088167P.
PR 05-JUN-1998; 98US-0088202P.
PR 05-JUN-1998; 98US-0088212P.
PR 05-JUN-1998; 98US-0088217P.
PR 09-JUN-1998; 98US-0088655P.
PR 10-JUN-1998; 98US-0088722P.
PR 10-JUN-1998; 98US-0088738P.
PR 10-JUN-1998; 98US-0088740P.
PR 10-JUN-1998; 98US-0088811P.
PR 10-JUN-1998; 98US-0088824P.
PR 10-JUN-1998; 98US-0088825P.
PR 10-JUN-1998; 98US-0088826P.
PR 11-JUN-1998; 98US-0088861P.
PR 11-JUN-1998; 98US-0088863P.
PR 11-JUN-1998; 98US-0088876P.
PR 12-JUN-1998; 98US-0089090P.
PR 12-JUN-1998; 98US-0089105P.
PR 16-JUN-1998; 98US-0089512P.
PR 16-JUN-1998; 98US-0089514P.
PR 17-JUN-1998; 98US-0089538P.
PR 17-JUN-1998; 98US-0089598P.
PR 17-JUN-1998; 98US-0089623P.
PR 18-JUN-1998; 98US-0089908P.
PR 19-JUN-1998; 98US-0089952P.
PR 22-JUN-1998; 98US-0090246P.
PR 22-JUN-1998; 98US-0090252P.
PR 22-JUN-1998; 98US-0090254P.
PR 24-JUN-1998; 98US-0090429P.
PR 24-JUN-1998; 98US-0090443P.
PR 24-JUN-1998; 98US-0090444P.
PR 24-JUN-1998; 98US-0090461P.
PR 24-JUN-1998; 98US-0090535P.
PR 24-JUN-1998; 98US-0090540P.
PR 25-JUN-1998; 98US-0090676P.
PR 25-JUN-1998; 98US-0090678P.
PR 25-JUN-1998; 98US-0090688P.
PR 25-JUN-1998; 98US-0090690P.
PR 25-JUN-1998; 98US-0090694P.
PR 25-JUN-1998; 98US-0090695P.
PR 26-JUN-1998; 98US-0090696P.
PR 26-JUN-1998; 98US-0090822P.
PR 26-JUN-1998; 98US-0090863P.
PR 26-JUN-1998; 98US-0091010P.
PR 01-JUL-1998; 98US-0091359P.
PR 01-JUL-1998; 98US-0091544P.

PR 02-JUL-1998; 98US-0091478P.
PR 02-JUL-1998; 98US-0091486P.
PR 02-JUL-1998; 98US-0091626P.
PR 02-JUL-1998; 98US-0091628P.
PR 02-JUL-1998; 98US-0091632P.
PR 24-JUL-1998; 98US-0094006P.
PR 04-AUG-1998; 98US-0095282P.
PR 10-AUG-1998; 98US-0095998P.
PR 10-AUG-1998; 98US-0096012P.
PR 17-AUG-1998; 98US-0096757P.
PR 17-AUG-1998; 98US-0096766P.
PR 17-AUG-1998; 98US-0096867P.
PR 17-AUG-1998; 98US-0096891P.
PR 18-AUG-1998; 98US-0096897P.
PR 18-AUG-1998; 98US-0096949P.
PR 18-AUG-1998; 98US-0096959P.
PR 18-AUG-1998; 98US-0097022P.
PR 26-AUG-1998; 98US-0097952P.
PR 26-AUG-1998; 98US-0097954P.
PR 26-AUG-1998; 98US-0097955P.
PR 26-AUG-1998; 98US-0097971P.
PR 26-AUG-1998; 98US-0097974P.
PR 26-AUG-1998; 98US-0098014P.
PR 01-SEP-1998; 98US-0098716P.
PR 01-SEP-1998; 98US-0098723P.
PR 02-SEP-1998; 98US-0098803P.
PR 02-SEP-1998; 98US-0098821P.
PR 02-SEP-1998; 98US-0098843P.
PR 09-SEP-1998; 98US-0099602P.
PR 10-SEP-1998; 98US-0099741P.
PR 10-SEP-1998; 98US-0099754P.
PR 10-SEP-1998; 98US-0099763P.
PR 10-SEP-1998; 98US-0099812P.
PR 15-SEP-1998; 98US-0100388P.
PR 16-SEP-1998; 98US-0100662P.
PR 16-SEP-1998; 98US-0100664P.
PR 16-SEP-1998; 98US-0101751P.
PR 16-SEP-1998; 98WO-US019330.
PR 17-SEP-1998; 98US-0100683P.
PR 17-SEP-1998; 98US-0100684P.
PR 17-SEP-1998; 98US-0100919P.
PR 17-SEP-1998; 98US-0100930P.
PR 18-SEP-1998; 98US-0100849P.
PR 18-SEP-1998; 98US-0101014P.
PR 18-SEP-1998; 98US-0101068P.
PR 23-SEP-1998; 98US-0101471P.
PR 23-SEP-1998; 98US-0101472P.
PR 23-SEP-1998; 98US-0101475P.
PR 23-SEP-1998; 98US-0101477P.
PR 24-SEP-1998; 98US-0101738P.
PR 24-SEP-1998; 98US-0101739P.
PR 24-SEP-1998; 98US-0101743P.
PR 24-SEP-1998; 98US-0101922P.
PR 25-SEP-1998; 98US-0101786P.
PR 29-SEP-1998; 98US-0102207P.
PR 29-SEP-1998; 98US-0102240P.
PR 29-SEP-1998; 98US-0102330P.
PR 29-SEP-1998; 98US-0102331P.
PR 30-SEP-1998; 98US-0102487P.
PR 30-SEP-1998; 98US-0102570P.
PR 30-SEP-1998; 98US-0102571P.
PR 01-OCT-1998; 98US-0102684P.
PR 01-OCT-1998; 98US-0102687P.
PR 02-OCT-1998; 98US-0102965P.
PR 06-OCT-1998; 98US-0103258P.
PR 06-OCT-1998; 98US-0103449P.

Query Match 94.3%; Score 417; DB 6; Length 440;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY

26 LRLLLLSAALPTGDGQNLFTKQVTVIEGEVATISQVKNKSDSDSVIQLLNPRTIY 85
|||||

| | | | | | | | |
|-----------|-----|--|--|--|----|--------------|----------------|
| Db | 24 | LRLLLLSAALIPTGQGNLFKDVTVIEGEVATIS | CQVKNKSDSDSVIQLNPNRQTIY | 83 | PR | 11-MAR-1998; | 98US-0077649P. |
| Qy | 86 | FRDRPLKDSRFQLLNFS | SSSELKVSLSLNV | SSISDEGRYFCOLYTDPPQESVTITVLVPPR | PR | 20-MAR-1998; | 98US-0078886P. |
| Db | 84 | FRDRPLKDSRFQLLNFS | SELKVSLSLNV | SSISDEGRYFCOLYTDPPQESVTITVLVPPR | PR | 20-MAR-1998; | 98US-0078939P. |
| Qy | 146 | NLMIDIQKOTAVEGEEIEVNC | TAMASKPAT | TIIRWFKGNTELKSKSEVEESDMYVTSQ | PR | 27-MAR-1998; | 98US-0079664P. |
| Db | 144 | NLMIDIQKOTAVEGEEIEVNC | TAMASKPAT | TIIRWFKGNTELKSKSEVEESDMYVTSQ | PR | 27-MAR-1998; | 98US-0079786P. |
| Qy | 206 | MLKVHKEDDGPVVICQVEH | PAVTGNLO | TORYLEVOYKPOVHIQMTYPLQGLTREGDALEL | PR | 31-MAR-1998; | 98US-0080107P. |
| Db | 204 | MLKVHKEDDGPVVICQVEH | PAVTGNLO | TORYLEVOYKPOVHIQMTYPLQGLTREGDALEL | PR | 31-MAR-1998; | 98US-0080194P. |
| Qy | 266 | TCEAIGKQPQVMVTWVRVDD | EMPOHVL | SGPNLFINNLTNDNGTYRCEASNIVGKAHSD | PR | 01-APR-1998; | 98US-0080327P. |
| Db | 264 | TCEAIGKQPQVMVTWVRVDD | EMPOHVL | SGPNLFINNLTNDNGTYRCEASNIVGKAHSD | PR | 01-APR-1998; | 98US-0080333P. |
| Qy | 326 | YMLVYDPTTIPPTTTTTTTTTTTTTTTTTTTTT | TT | TT | PR | 08-APR-1998; | 98US-0081049P. |
| Db | 324 | YMLVYDPTTIPPTTTTTTTTTTTTTTTTTTTTT | TT | TT | PR | 08-APR-1998; | 98US-0081070P. |
| Qy | 386 | FAMLCILIIIGRYFARHKGYFT | HEAKGADDAADAT | TAIINAEQQNNSEKKEYFI | PR | 08-APR-1998; | 98US-0081195P. |
| Db | 384 | FAMLCILIIIGRYFARHKGYFT | HEAKGADDAADAT | TAIINAEQQNNSEKKEYFI | PR | 15-APR-1998; | 98US-0081838P. |
| RESULT 47 | | | | | | | |
| ABO02095 | ID | ABO02095 | standard; protein; 440 AA. | | PR | 21-APR-1998; | 98US-0082568P. |
| XX | AC | ABO02095; | | | PR | 21-APR-1998; | 98US-0082704P. |
| XX | AC | ABO02095; | | | PR | 21-APR-1998; | 98US-0082797P. |
| XX | DT | 09-AUG-2003 | (first entry) | | PR | 28-APR-1998; | 98US-0083222P. |
| XX | DE | Human secreted/transmembrane protein (PRO) #17. | | | PR | 28-APR-1998; | 98US-0083495P. |
| XX | KW | Human; secreted and transmembrane protein; PRO; TNF-alpha; | | | PR | 29-APR-1998; | 98US-0083496P. |
| XX | KW | tumour necrosis factor alpha; chondrocyte cell; tumour; Gene therapy; | | | PR | 29-APR-1998; | 98US-0083499P. |
| XX | KW | tissue typing; adrenal tumour; lung tumour; colon tumour; breast tumour; | | | PR | 29-APR-1998; | 98US-0083559P. |
| XX | KW | prostate tumour; rectal tumour; cervical tumour; liver tumour. | | | PR | 29-APR-1998; | 98US-0084366P. |
| XX | OS | Homo sapiens. | | | PR | 06-MAY-1998; | 98US-0084414P. |
| XX | PN | US2003040054-A1. | | | PR | 07-MAY-1998; | 98US-0084640P. |
| XX | PD | 27-FEB-2003. | | | PR | 07-MAY-1998; | 98US-0084643P. |
| XX | PF | 20-JUN-2002; 2002US-00176479. | | | PR | 15-MAY-1998; | 98US-0085579P. |
| XX | PR | 18-SEP-1997; 97US-0059263P. | | | PR | 15-MAY-1998; | 98US-0085580P. |
| XX | PR | 18-SEP-1997; 97US-0059266P. | | | PR | 15-MAY-1998; | 98US-0085582P. |
| XX | PR | 21-OCT-1997; 97US-0062250P. | | | PR | 15-MAY-1998; | 98US-0085700P. |
| XX | PR | 21-OCT-1997; 97US-0063486P. | | | PR | 18-MAY-1998; | 98US-0086023P. |
| XX | PR | 24-OCT-1997; 97US-00631120P. | | | PR | 22-MAY-1998; | 98US-0086392P. |
| XX | PR | 24-OCT-1997; 97US-00631121P. | | | PR | 22-MAY-1998; | 98US-0086486P. |
| XX | PR | 28-OCT-1997; 97US-0063540P. | | | PR | 28-MAY-1998; | 98US-0087098P. |
| XX | PR | 28-OCT-1997; 97US-0063541P. | | | PR | 28-MAY-1998; | 98US-0087208P. |
| XX | PR | 28-OCT-1997; 97US-0063544P. | | | PR | 02-JUN-1998; | 98US-0087609P. |
| XX | PR | 28-OCT-1997; 97US-0063564P. | | | PR | 02-JUN-1998; | 98US-0087759P. |
| XX | PR | 29-OCT-1997; 97US-0063734P. | | | PR | 03-JUN-1998; | 98US-0087827P. |
| XX | PR | 31-OCT-1997; 97US-0063870P. | | | PR | 04-JUN-1998; | 98US-0088025P. |
| XX | PR | 31-OCT-1997; 97US-0064103P. | | | PR | 04-JUN-1998; | 98US-0088028P. |
| XX | PR | 13-NOV-1997; 97US-0065311P. | | | PR | 04-JUN-1998; | 98US-0088033P. |
| XX | PR | 21-NOV-1997; 97US-0066120P. | | | PR | 05-JUN-1998; | 98US-0088167P. |
| XX | PR | 24-NOV-1997; 97US-0066466P. | | | PR | 05-JUN-1998; | 98US-0088202P. |
| XX | PR | 24-NOV-1997; 97US-0066772P. | | | PR | 05-JUN-1998; | 98US-0088212P. |
| XX | PR | 11-DEC-1997; 97US-0069335P. | | | PR | 09-JUN-1998; | 98US-0088217P. |
| XX | PR | 12-DEC-1997; 97US-0069425P. | | | PR | 10-JUN-1998; | 98US-0088722P. |
| XX | PR | 17-DEC-1997; 97US-0069870P. | | | PR | 10-JUN-1998; | 98US-0088738P. |
| XX | PR | 18-DEC-1997; 97US-0068017P. | | | PR | 10-JUN-1998; | 98US-0088811P. |
| XX | PR | 10-MAR-1998; 98US-0077450P. | | | PR | 10-JUN-1998; | 98US-0088824P. |
| XX | PR | 11-MAR-1998; 98US-0077632P. | | | PR | 10-JUN-1998; | 98US-0088825P. |

PR 24-JUN-1998; 98US-0090444P.
PR 24-JUN-1998; 98US-0090461P.
PR 24-JUN-1998; 98US-0090535P.
PR 24-JUN-1998; 98US-0090540P.
PR 25-JUN-1998; 98US-0090676P.
PR 25-JUN-1998; 98US-0090678P.
PR 25-JUN-1998; 98US-0090688P.
PR 25-JUN-1998; 98US-0090690P.
PR 25-JUN-1998; 98US-0090694P.
PR 25-JUN-1998; 98US-0090695P.
PR 25-JUN-1998; 98US-0090696P.
PR 26-JUN-1998; 98US-0090862P.
PR 26-JUN-1998; 98US-0090863P.
PR 26-JUN-1998; 98US-0091010P.
PR 01-JUL-1998; 98US-0091359P.
PR 01-JUL-1998; 98US-0091544P.
PR 02-JUL-1998; 98US-0091478P.
PR 02-JUL-1998; 98US-0091486P.
PR 02-JUL-1998; 98US-0091626P.
PR 02-JUL-1998; 98US-0091628P.
PR 02-JUL-1998; 98US-0091632P.
PR 24-JUL-1998; 98US-0094006P.
PR 04-AUG-1998; 98US-0095282P.
PR 10-AUG-1998; 98US-0095998P.
PR 10-AUG-1998; 98US-0096012P.
PR 17-AUG-1998; 98US-0096757P.
PR 17-AUG-1998; 98US-0096766P.
PR 17-AUG-1998; 98US-0096867P.
PR 17-AUG-1998; 98US-0096891P.
PR 17-AUG-1998; 98US-0096897P.
PR 18-AUG-1998; 98US-0096949P.
PR 18-AUG-1998; 98US-0096959P.
PR 18-AUG-1998; 98US-0097022P.
PR 26-AUG-1998; 98US-0097952P.
PR 26-AUG-1998; 98US-0097954P.
PR 26-AUG-1998; 98US-0097955P.
PR 26-AUG-1998; 98US-0097971P.
PR 26-AUG-1998; 98US-0097974P.
PR 26-AUG-1998; 98US-0098014P.
PR 01-SEP-1998; 98US-0098716P.
PR 01-SEP-1998; 98US-0098723P.
PR 02-SEP-1998; 98US-0098803P.
PR 02-SEP-1998; 98US-0098821P.
PR 02-SEP-1998; 98US-0098843P.
PR 09-SEP-1998; 98US-0099602P.
PR 10-SEP-1998; 98US-0099741P.
PR 10-SEP-1998; 98US-0099754P.
PR 10-SEP-1998; 98US-0099763P.
PR 10-SEP-1998; 98US-0099812P.
PR 15-SEP-1998; 98US-0100388P.
PR 16-SEP-1998; 98US-0100662P.
PR 16-SEP-1998; 98US-0100664P.
PR 16-SEP-1998; 98US-0101751P.
PR 16-SEP-1998; 98MO-US019330.
PR 17-SEP-1998; 98US-0100683P.
PR 17-SEP-1998; 98US-0100684P.
PR 17-SEP-1998; 98US-0100919P.
PR 17-SEP-1998; 98US-0100930P.
PR 18-SEP-1998; 98US-0100849P.
PR 18-SEP-1998; 98US-0101014P.
PR 18-SEP-1998; 98US-0101014P.
PR 23-SEP-1998; 98US-0101088P.
PR 23-SEP-1998; 98US-0101471P.
PR 23-SEP-1998; 98US-0101472P.
PR 23-SEP-1998; 98US-0101475P.
PR 23-SEP-1998; 98US-0101477P.
PR 24-SEP-1998; 98US-0101738P.
PR 24-SEP-1998; 98US-0101739P.
PR 24-SEP-1998; 98US-0101743P.
PR 24-SEP-1998; 98US-0101922P.
PR 25-SEP-1998; 98US-0101786P.
PR 29-SEP-1998; 98US-0102207P.
PR 29-SEP-1998; 98US-0102240P.
PR 29-SEP-1998; 98US-0102230P.

PR 29-SEP-1998; 98US-0102331P.
PR 30-SEP-1998; 98US-0102487P.
PR 30-SEP-1998; 98US-0102570P.
PR 30-SEP-1998; 98US-0102571P.
PR 01-OCT-1998; 98US-0102684P.
PR 01-OCT-1998; 98US-0102687P.
PR 02-OCT-1998; 98US-0102965P.
PR 06-OCT-1998; 98US-0103258P.
PR 06-OCT-1998; 98US-0103449P.
PR 07-OCT-1998; 98US-0103395P.

Query Match 94.3%; Score 417; DB 6; Length 440;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 26 LRLLLLFSAALIPGQGNLFTKDVTVIEGEVATISQVKNKSDSDSVIQLLNPRTIY 85
|||||
Db 24 LRLLLLFSAALIPGQGNLFTKDVTVIEGEVATISQVKNKSDSDSVIQLLNPRTIY 83
|||||

Qy 86 FRDFRPLKDSRFQLLNPFSSSELKVLSTNVISISDEGRYFCOLYTDPPQESYTTITVLVPPR 145
|||||
Db 84 FRDFRPLKDSRFQLLNPFSSSELKVLSTNVISISDEGRYFCOLYTDPPQESYTTITVLVPPR 143
|||||

Qy 146 NLMIDIQKOTAVRGEIEVNCNTAMASKPATIIRWFKGNTLKGKSEVEESDMYTVTSOL 205
|||||
Db 144 NLMIDIQKOTAVRGEIEVNCNTAMASKPATIIRWFKGNTLKGKSEVEESDMYTVTSOL 203
|||||

Qy 206 MLKVHKEDGVPVICQVEHPAVTGNLQRYLYEVQYKPVHIOQMTYPLQGLTREGDALEL 265
|||||
Db 204 MLKVHKEDGVPVICQVEHPAVTGNLQRYLYEVQYKPVHIOQMTYPLQGLTREGDALEL 263
|||||

Qy 266 TCEAIGKQPQPMVTWVRVDDMPQHAVLSGPNLFINNKNKTNGTYRCEASNIVGKAHSD 325
|||||
Db 264 TCEAIGKQPQPMVTWVRVDDMPQHAVLSGPNLFINNKNKTNGTYRCEASNIVGKAHSD 323
|||||

Qy 326 YMLVYVDPPTIIPPTTT 385
|||||
Db 324 YMLVYVDPPTIIPPTTT 383
|||||

Qy 386 FMLCLLIILGRYFARHKGTYFTHEAKGADDAADATTAIINAEQQNNSEKKEYFI 442
|||||
Db 384 FMLCLLIILGRYFARHKGTYFTHEAKGADDAADATTAIINAEQQNNSEKKEYFI 440
|||||

RESULT 48
ABU58360
ID ABU58360 standard; protein; 440 AA.
XX AC ABU58360;
XX DT 14-APR-2003 (first entry)
XX DE Novel human secreted protein PR0355.
XX KW Human; antiinflammatory; antiarteriosclerotic; cardiant; gynecological;
KW anti-HIV; cytostatic; antidiabetic; BMP-agonist; BMP-Antagonist;
KW cytokine-agonist; cytokine-antagonist; gene-Therapy;
KW inflammatory disease; organ failure; atherosclerosis; cardiac injury;
KW infertility; birth defect; premature aging; AIDS; cancer;
XX diabetic complication.

OS Homo sapiens.
XX US2002150976-A1.
XX PN 17-OCT-2002.
XX PD 30-AUG-2001; 2001US-00943851.
XX PR 03-DEC-1997; 97US-0067411P.
PR 11-DEC-1997; 97US-0069278P.
PR 11-DEC-1997; 97US-0069334P.
PR 11-DEC-1997; 97US-0069335P.

PR 01-APR-1998; 98US-0080333P.
PR 08-APR-1998; 98US-0081049P.
PR 08-APR-1998; 98US-0081070P.
PR 09-APR-1998; 98US-0081119P.
PR 15-APR-1998; 98US-0081838P.
PR 21-APR-1998; 98US-0082568P.
PR 21-APR-1998; 98US-0082569P.
PR 22-APR-1998; 98US-0082704P.
PR 22-APR-1998; 98US-0082797P.
PR 28-APR-1998; 98US-0083322P.
PR 29-APR-1998; 98US-0083495P.
PR 29-APR-1998; 98US-0083496P.
PR 29-APR-1998; 98US-0083499P.
PR 29-APR-1998; 98US-0083559P.
PR 05-MAY-1998; 98US-0084366P.
PR 06-MAY-1998; 98US-0084414P.
PR 07-MAY-1998; 98US-0084639P.
PR 07-MAY-1998; 98US-0084640P.
PR 07-MAY-1998; 98US-0084643P.
PR 15-MAY-1998; 98US-0085579P.
PR 15-MAY-1998; 98US-0085580P.
PR 15-MAY-1998; 98US-0085582P.
PR 15-MAY-1998; 98US-0085582P.
PR 18-MAY-1998; 98US-0086023P.
PR 22-MAY-1998; 98US-0086332P.
PR 22-MAY-1998; 98US-0086486P.
PR 28-MAY-1998; 98US-0087098P.
PR 28-MAY-1998; 98US-0087208P.
PR 02-JUN-1998; 98US-0087609P.
PR 02-JUN-1998; 98US-0087759P.
PR 03-JUN-1998; 98US-0087827P.
PR 04-JUN-1998; 98US-0088025P.
PR 04-JUN-1998; 98US-0088028P.
PR 04-JUN-1998; 98US-0088029P.
PR 04-JUN-1998; 98US-0088033P.
PR 04-JUN-1998; 98US-0088326P.
PR 05-JUN-1998; 98US-0088167P.
PR 05-JUN-1998; 98US-0088202P.
PR 05-JUN-1998; 98US-0088212P.
PR 05-JUN-1998; 98US-0088217P.
PR 09-JUN-1998; 98US-0088655P.
PR 10-JUN-1998; 98US-0088722P.
PR 10-JUN-1998; 98US-0088738P.
PR 10-JUN-1998; 98US-0088740P.
PR 10-JUN-1998; 98US-0088811P.
PR 10-JUN-1998; 98US-0088824P.
PR 10-JUN-1998; 98US-0088825P.
PR 10-JUN-1998; 98US-0088826P.
PR 11-JUN-1998; 98US-0088861P.
PR 11-JUN-1998; 98US-0088863P.
PR 11-JUN-1998; 98US-0088876P.
PR 12-JUN-1998; 98US-0089090P.
PR 12-JUN-1998; 98US-0089105P.
PR 16-JUN-1998; 98US-0089512P.
PR 16-JUN-1998; 98US-0089514P.
PR 17-JUN-1998; 98US-0089538P.
PR 17-JUN-1998; 98US-0089598P.
PR 17-JUN-1998; 98US-0089653P.
PR 18-JUN-1998; 98US-0089908P.
PR 19-JUN-1998; 98US-0089952P.
PR 22-JUN-1998; 98US-0090246P.
PR 22-JUN-1998; 98US-0090252P.
PR 22-JUN-1998; 98US-0090254P.
PR 24-JUN-1998; 98US-0090429P.
PR 24-JUN-1998; 98US-0090435P.
PR 24-JUN-1998; 98US-0090444P.
PR 24-JUN-1998; 98US-0090461P.
PR 24-JUN-1998; 98US-0090535P.
PR 24-JUN-1998; 98US-0090540P.
PR 25-JUN-1998; 98US-0090676P.
PR 25-JUN-1998; 98US-0090678P.
PR 25-JUN-1998; 98US-0090688P.
PR 25-JUN-1998; 98US-0090690P.
PR 25-JUN-1998; 98US-0090694P.
PR 25-JUN-1998; 98US-0090695P.
PR 26-JUN-1998; 98US-00105413.
PR 26-JUN-1998; 98US-0090862P.
PR 26-JUN-1998; 98US-0090863P.
PR 26-JUN-1998; 98US-0091010P.
PR 01-JUL-1998; 98US-0091135P.
PR 01-JUL-1998; 98US-0091144P.
PR 02-JUL-1998; 98US-0091478P.
PR 02-JUL-1998; 98US-0091486P.
PR 02-JUL-1998; 98US-0091626P.
PR 02-JUL-1998; 98US-0091628P.
PR 02-JUL-1998; 98US-0091632P.
PR 24-JUL-1998; 98US-0094006P.
PR 04-AUG-1998; 98US-0095282P.
PR 10-AUG-1998; 98US-0095998P.
PR 10-AUG-1998; 98US-0096012P.
PR 17-AUG-1998; 98US-0096757P.
PR 17-AUG-1998; 98US-0096766P.
PR 17-AUG-1998; 98US-0096867P.
PR 17-AUG-1998; 98US-0096891P.
PR 17-AUG-1998; 98US-0096897P.
PR 18-AUG-1998; 98US-0096949P.
PR 18-AUG-1998; 98US-0096959P.
PR 18-AUG-1998; 98US-0097022P.
PR 26-AUG-1998; 98US-0097952P.
PR 26-AUG-1998; 98US-0097954P.
PR 26-AUG-1998; 98US-0097955P.
PR 26-AUG-1998; 98US-0097971P.
PR 26-AUG-1998; 98US-0097974P.
PR 26-AUG-1998; 98US-0098014P.
PR 01-SEP-1998; 98US-0098716P.
PR 02-SEP-1998; 98US-0098723P.
PR 02-SEP-1998; 98US-0098803P.
PR 02-SEP-1998; 98US-0098821P.
PR 02-SEP-1998; 98US-0098843P.
PR 09-SEP-1998; 98US-0099602P.
PR 10-SEP-1998; 98US-0099741P.
PR 10-SEP-1998; 98US-0099754P.
PR 10-SEP-1998; 98US-0099763P.
PR 15-SEP-1998; 98US-0099812P.
PR 15-SEP-1998; 98US-0100388P.
PR 16-SEP-1998; 98US-0100662P.
PR 16-SEP-1998; 98US-0100664P.
PR 16-SEP-1998; 98US-0101751P.
PR 16-SEP-1998; 98US-0101751P.
PR 17-SEP-1998; 98US-0100683P.
PR 17-SEP-1998; 98US-0100684P.
PR 17-SEP-1998; 98US-0100919P.
PR 17-SEP-1998; 98US-0100930P.
PR 18-SEP-1998; 98US-0100849P.
PR 18-SEP-1998; 98US-0101014P.
PR 18-SEP-1998; 98US-0101068P.
PR 23-SEP-1998; 98US-0101471P.
PR 23-SEP-1998; 98US-0101472P.
PR 23-SEP-1998; 98US-0101475P.
PR 23-SEP-1998; 98US-0101477P.
PR 24-SEP-1998; 98US-0101738P.
PR 24-SEP-1998; 98US-0101739P.
PR 24-SEP-1998; 98US-0101743P.
PR 24-SEP-1998; 98US-0101922P.
PR 25-SEP-1998; 98US-0101786P.
PR 29-SEP-1998; 98US-0102207P.
PR 29-SEP-1998; 98US-0102240P.
PR 29-SEP-1998; 98US-0102330P.
PR 29-SEP-1998; 98US-0102331P.
PR 30-SEP-1998; 98US-0102487P.
PR 30-SEP-1998; 98US-0102570P.
PR 30-SEP-1998; 98US-0102571P.
PR 01-OCT-1998; 98US-0102684P.
PR 01-OCT-1998; 98US-0102687P.
PR 02-OCT-1998; 98US-0102965P.


```
PR 17-JUN-1998; 98US-0089598P.
PR 17-JUN-1998; 98US-0089638P.
PR 18-JUN-1998; 98US-0089908P.
PR 19-JUN-1998; 98US-0089952P.
PR 22-JUN-1998; 98US-0090246P.
PR 22-JUN-1998; 98US-0090252P.
PR 22-JUN-1998; 98US-0090254P.
PR 24-JUN-1998; 98US-0090429P.
PR 24-JUN-1998; 98US-0090435P.
PR 24-JUN-1998; 98US-0090444P.
PR 24-JUN-1998; 98US-0090461P.
PR 24-JUN-1998; 98US-0090535P.
PR 25-JUN-1998; 98US-0090540P.
PR 25-JUN-1998; 98US-0090676P.
PR 25-JUN-1998; 98US-0090678P.
PR 25-JUN-1998; 98US-0090688P.
PR 25-JUN-1998; 98US-0090690P.
PR 25-JUN-1998; 98US-0090694P.
PR 25-JUN-1998; 98US-0090695P.
PR 25-JUN-1998; 98US-0090696P.
PR 26-JUN-1998; 98US-00105413.
PR 26-JUN-1998; 98US-0090862P.
PR 26-JUN-1998; 98US-0090863P.
PR 26-JUN-1998; 98US-0091010P.
PR 01-JUL-1998; 98US-0091359P.
PR 01-JUL-1998; 98US-0091544P.
PR 02-JUL-1998; 98US-0091478P.
PR 02-JUL-1998; 98US-0091486P.
PR 02-JUL-1998; 98US-0091626P.
PR 02-JUL-1998; 98US-0091628P.
PR 02-JUL-1998; 98US-0091632P.
PR 04-AUG-1998; 98US-0094006P.
PR 10-AUG-1998; 98US-0095998P.
PR 10-AUG-1998; 98US-0096012P.
PR 17-AUG-1998; 98US-0096757P.
PR 17-AUG-1998; 98US-0096766P.
PR 17-AUG-1998; 98US-0096867P.
PR 17-AUG-1998; 98US-0096891P.
PR 18-AUG-1998; 98US-0096897P.
PR 18-AUG-1998; 98US-0096949P.
PR 18-AUG-1998; 98US-0096959P.
PR 18-AUG-1998; 98US-0097022P.
PR 26-AUG-1998; 98US-0097952P.
PR 26-AUG-1998; 98US-0097954P.
PR 26-AUG-1998; 98US-0097955P.
PR 26-AUG-1998; 98US-0097971P.
PR 26-AUG-1998; 98US-0097974P.
PR 26-AUG-1998; 98US-0098014P.
PR 01-SEP-1998; 98US-0098716P.
PR 01-SEP-1998; 98US-0098723P.
PR 02-SEP-1998; 98US-0098803P.
PR 02-SEP-1998; 98US-0098821P.
PR 02-SEP-1998; 98US-0098843P.
PR 09-SEP-1998; 98US-0099602P.
PR 10-SEP-1998; 98US-0099741P.
PR 10-SEP-1998; 98US-0099754P.
PR 10-SEP-1998; 98US-0099763P.
PR 10-SEP-1998; 98US-0099812P.
PR 15-SEP-1998; 98US-0100388P.
PR 16-SEP-1998; 98US-0100662P.
PR 16-SEP-1998; 98US-0100664P.
PR 16-SEP-1998; 98US-0101751P.
PR 16-SEP-1998; 98US-01019330.
PR 17-SEP-1998; 98US-0100683P.
PR 17-SEP-1998; 98US-0100684P.
PR 17-SEP-1998; 98US-0100919P.
PR 17-SEP-1998; 98US-0100930P.
PR 18-SEP-1998; 98US-0100849P.
PR 18-SEP-1998; 98US-0101014P.
PR 18-SEP-1998; 98US-0101058P.
PR 23-SEP-1998; 98US-0101471P.
PR 23-SEP-1998; 98US-0101472P.

PR 23-SEP-1998; 98US-0101475P.
PR 23-SEP-1998; 98US-0101477P.
PR 24-SEP-1998; 98US-0101738P.
PR 24-SEP-1998; 98US-0101739P.
PR 24-SEP-1998; 98US-0101743P.
PR 24-SEP-1998; 98US-0101922P.
PR 25-SEP-1998; 98US-0101786P.
PR 25-SEP-1998; 98US-0102207P.
PR 25-SEP-1998; 98US-0102240P.
PR 29-SEP-1998; 98US-0102330P.
PR 29-SEP-1998; 98US-0102331P.
PR 30-SEP-1998; 98US-0102487P.
PR 30-SEP-1998; 98US-0102570P.
PR 30-SEP-1998; 98US-0102571P.
PR 01-OCT-1998; 98US-0102684P.
PR 01-OCT-1998; 98US-0102687P.
PR 02-OCT-1998; 98US-0102965P.
PR 06-OCT-1998; 98US-0103258P.
PR 06-OCT-1998; 98US-0103449P.
PR 07-OCT-1998; 98US-00168978.

Query Match 94.3%; Score 417; DB 6; Length 440;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 26 LRLLLLLLSAAALIPGTGQNLFTKDVTVIEGEVATISCOVNKSDSDSVIQLLNPRTIY 85
DB 24 LRLLLLLLSAAALIPGTGQNLFTKDVTVIEGEVATISCOVNKSDSDSVIQLLNPRTIY 83
QY 86 FRDFRPLKDSRFQLLNFSSSELKVSILTNVSIISDEGRYFCOLYTDPPQESYTTITVLVPPR 145
DB 84 FRDFRPLKDSRFQLLNFSSSELKVSILTNVSIISDEGRYFCOLYTDPPQESYTTITVLVPPR 143
QY 146 NLMIDIQKOTAVEGEEIEVNCNTAMASKPATTIWFKGNTELKKGSEVEEKSVMYTVTSOL 205
DB 144 NLMIDIQKOTAVEGEEIEVNCNTAMASKPATTIWFKGNTELKKGSEVEEKSVMYTVTSOL 203
QY 206 MLKVHKEDDGPVVCQVEHPAVTGNLTQRYLEVQYKPVQHIQWTVPLQGLTREGDALEL 265
DB 204 MLKVHKEDDGPVVCQVEHPAVTGNLTQRYLEVQYKPVQHIQWTVPLQGLTREGDALEL 263
QY 266 TCEAIGKQPQVWVTVVRVDDDEMPHVLSCPNLFINNLKNTDNGTYRCEASNIVGKAHSD 325
DB 264 TCEAIGKQPQVWVTVVRVDDDEMPHVLSCPNLFINNLKNTDNGTYRCEASNIVGKAHSD 323
QY 326 YMLVYVDPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 385
DB 324 YMLVYVDPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 383
QY 386 FAMLCLLIILGRYFARHKGTFTHEAKGADDAADATTAIINAEQGQNNSEKKEYFI 442
DB 384 FAMLCLLIILGRYFARHKGTFTHEAKGADDAADATTAIINAEQGQNNSEKKEYFI 440

RESULT 51
ABO06165
ID ABO06165 standard; protein; 440 AA.
XX AC ABO06165;
XX AC ABO06165;
DT 13-AUG-2003 (first entry)
XX DE
XX Novel human secreted and transmembrane protein PRO355.
XX Human; secreted and transmembrane protein; PRO; gene therapy;
XX chondrocyte stimulator; chromosome mapping; gene mapping;
XX transgenic animal; knockout animal; tissue typing;
XX chondrocyte proliferation; chondrocyte differentiation;
XX tumour necrosis factor-alpha stimulation; TNF-alpha stimulation.
XX OS Homo sapiens.
XX PN US2003022294-A1.
```

XX PD 30-JAN-2003.
XX PF 19-JUN-2002; 2002US-00175738.
XX XX
PR 18-SEP-1997; 97US-0059263P.
PR 18-SEP-1997; 97US-0059266P.
PR 17-OCT-1997; 97US-0062250P.
PR 21-OCT-1997; 97US-0063486P.
PR 24-OCT-1997; 97US-0063120P.
PR 24-OCT-1997; 97US-0063121P.
PR 28-OCT-1997; 97US-0063540P.
PR 28-OCT-1997; 97US-0063541P.
PR 28-OCT-1997; 97US-0063544P.
PR 28-OCT-1997; 97US-0063564P.
PR 29-OCT-1997; 97US-0063734P.
PR 31-OCT-1997; 97US-0063870P.
PR 31-OCT-1997; 97US-0064103P.
PR 13-NOV-1997; 97US-0065311P.
PR 21-NOV-1997; 97US-0066120P.
PR 24-NOV-1997; 97US-0066466P.
PR 24-NOV-1997; 97US-0066772P.
PR 11-DEC-1997; 97US-0069335P.
PR 12-DEC-1997; 97US-0069445P.
PR 17-DEC-1997; 97US-0069870P.
PR 18-DEC-1997; 97US-007017P.
PR 10-MAR-1998; 98US-0077450P.
PR 11-MAR-1998; 98US-0077632P.
PR 11-MAR-1998; 98US-0077649P.
PR 20-MAR-1998; 98US-0078886P.
PR 20-MAR-1998; 98US-0078939P.
PR 27-MAR-1998; 98US-0079664P.
PR 27-MAR-1998; 98US-0079786P.
PR 31-MAR-1998; 98US-0080107P.
PR 31-MAR-1998; 98US-0080194P.
PR 01-APR-1998; 98US-0080327P.
PR 01-APR-1998; 98US-0080333P.
PR 08-APR-1998; 98US-0081049P.
PR 08-APR-1998; 98US-0081070P.
PR 09-APR-1998; 98US-0081195P.
PR 15-APR-1998; 98US-0081838P.
PR 21-APR-1998; 98US-0082568P.
PR 21-APR-1998; 98US-0082569P.
PR 22-APR-1998; 98US-0082704P.
PR 22-APR-1998; 98US-0083322P.
PR 28-APR-1998; 98US-0083455P.
PR 29-APR-1998; 98US-0083496P.
PR 29-APR-1998; 98US-0083499P.
PR 29-APR-1998; 98US-0083559P.
PR 05-MAY-1998; 98US-0084366P.
PR 06-MAY-1998; 98US-0084414P.
PR 07-MAY-1998; 98US-0084639P.
PR 07-MAY-1998; 98US-0084640P.
PR 15-MAY-1998; 98US-0085579P.
PR 15-MAY-1998; 98US-0085580P.
PR 15-MAY-1998; 98US-0085582P.
PR 15-MAY-1998; 98US-0085700P.
PR 18-MAY-1998; 98US-0086023P.
PR 22-MAY-1998; 98US-0086392P.
PR 22-MAY-1998; 98US-0086486P.
PR 28-MAY-1998; 98US-0087098P.
PR 28-MAY-1998; 98US-0087208P.
PR 02-JUN-1998; 98US-0087609P.
PR 02-JUN-1998; 98US-0087759P.
PR 03-JUN-1998; 98US-0087827P.
PR 04-JUN-1998; 98US-0088025P.
PR 04-JUN-1998; 98US-0088028P.
PR 04-JUN-1998; 98US-0088029P.
PR 04-JUN-1998; 98US-0088033P.
PR 04-JUN-1998; 98US-0088326P.
PR 05-JUN-1998; 98US-0088167P.
PR 05-JUN-1998; 98US-0088202P.

PR 05-JUN-1998; 98US-0088212P.
PR 05-JUN-1998; 98US-0088217P.
PR 09-JUN-1998; 98US-0088655P.
PR 10-JUN-1998; 98US-0088722P.
PR 10-JUN-1998; 98US-0088738P.
PR 10-JUN-1998; 98US-0088740P.
PR 10-JUN-1998; 98US-0088811P.
PR 10-JUN-1998; 98US-0088824P.
PR 10-JUN-1998; 98US-0088825P.
PR 10-JUN-1998; 98US-0088826P.
PR 11-JUN-1998; 98US-0088861P.
PR 11-JUN-1998; 98US-0088863P.
PR 11-JUN-1998; 98US-0088876P.
PR 12-JUN-1998; 98US-0089090P.
PR 12-JUN-1998; 98US-0089105P.
PR 16-JUN-1998; 98US-0089512P.
PR 16-JUN-1998; 98US-0089514P.
PR 17-JUN-1998; 98US-0089538P.
PR 17-JUN-1998; 98US-0089588P.
PR 17-JUN-1998; 98US-0089653P.
PR 18-JUN-1998; 98US-0089908P.
PR 18-JUN-1998; 98US-0089952P.
PR 22-JUN-1998; 98US-0090246P.
PR 22-JUN-1998; 98US-0090252P.
PR 22-JUN-1998; 98US-0090254P.
PR 24-JUN-1998; 98US-0090429P.
PR 24-JUN-1998; 98US-0090435P.
PR 24-JUN-1998; 98US-0090444P.
PR 24-JUN-1998; 98US-0090461P.
PR 24-JUN-1998; 98US-0090535P.
PR 24-JUN-1998; 98US-0090540P.
PR 25-JUN-1998; 98US-0090676P.
PR 25-JUN-1998; 98US-0090678P.
PR 25-JUN-1998; 98US-0090688P.
PR 25-JUN-1998; 98US-0090690P.
PR 25-JUN-1998; 98US-0090694P.
PR 25-JUN-1998; 98US-0090695P.
PR 25-JUN-1998; 98US-0090696P.
PR 26-JUN-1998; 98US-00105413.
PR 26-JUN-1998; 98US-0090862P.
PR 26-JUN-1998; 98US-0090863P.
PR 26-JUN-1998; 98US-0091010P.
PR 01-JUL-1998; 98US-0091359P.
PR 01-JUL-1998; 98US-0091544P.
PR 02-JUL-1998; 98US-0091478P.
PR 02-JUL-1998; 98US-0091486P.
PR 02-JUL-1998; 98US-0091626P.
PR 02-JUL-1998; 98US-0091628P.
PR 02-JUL-1998; 98US-0091632P.
PR 24-JUL-1998; 98US-0094006P.
PR 04-AUG-1998; 98US-0095282P.
PR 10-AUG-1998; 98US-0095998P.
PR 10-AUG-1998; 98US-0096012P.
PR 17-AUG-1998; 98US-0096757P.
PR 17-AUG-1998; 98US-0096766P.
PR 17-AUG-1998; 98US-0096867P.
PR 17-AUG-1998; 98US-0096891P.
PR 17-AUG-1998; 98US-0096897P.
PR 18-AUG-1998; 98US-0096949P.
PR 18-AUG-1998; 98US-0096959P.
PR 18-AUG-1998; 98US-0097022P.
PR 26-AUG-1998; 98US-0097952P.
PR 26-AUG-1998; 98US-0097954P.
PR 26-AUG-1998; 98US-0097955P.
PR 26-AUG-1998; 98US-0097971P.
PR 26-AUG-1998; 98US-0097974P.
PR 26-AUG-1998; 98US-0098014P.
PR 01-SEP-1998; 98US-0098716P.
PR 01-SEP-1998; 98US-0098723P.
PR 02-SEP-1998; 98US-0098803P.
PR 02-SEP-1998; 98US-0098821P.
PR 02-SEP-1998; 98US-0098843P.
PR 09-SEP-1998; 98US-0099602P.

Db 204 MLKVHKGDDGVFVLCQVEHPAVTGNLQRYLEYQYKPOVHIQMTYPLQGLTREGDALEL 263
Qy 266 TCEAIGKQPQVMVWVDDMPQHAVLSGNLFINNLTNDNGTYRCEASNIYVKAHSD 325
Db 264 TCEAIGKQPQVMVWVDDMPQHAVLSGNLFINNLTNDNGTYRCEASNIYVKAHSD 323
Qy 326 YMLVYDPPPTIPPTTTTTTTTTTTTTTTTTTTTTTTTTIITDSRAGEEGSIRAVDHAVIGGVAVV 385
Db 324 YMLVYDPPPTIPPTTTTTTTTTTTTTTTTTTTTTTTTTIITDSRAGEEGSIRAVDHAVIGGVAVV 383
Qy 386 FAMLCLLIILGRYPARHKGYFTTHEAKGADDAADATTAIINAEQQNNSEKKEYFI 442
Db 384 FAMLCLLIILGRYPARHKGYFTTHEAKGADDAADATTAIINAEQQNNSEKKEYFI 440

RESULT 53
ABO09263
ID ABO09263 standard; protein; 440 AA.
XX AC ABO09263;
XX AC
DT 17-AUG-2003 (first entry)
XX Human secreted/transmembrane protein (PRO) #17.
XX Human;
KW Human; secreted and transmembrane protein; PRO; TNF-alpha;
KW tumour necrosis factor alpha; chondrocyte cell; tumour; gene therapy;
KW tissue typing; adrenal tumour; lung tumour; colon tumour; breast tumour;
KW prostate tumour; rectal tumour; cervical tumour; liver tumour.
XX OS Homo sapiens.
XX PN US2003027324-A1.
XX PD
XX 06-FEB-2003.
XX 21-JUN-2002; 2002US-00176991.
XX 18-SEP-1997; 97US-0059263P.
PR 18-SEP-1997; 97US-0059266P.
PR 17-OCT-1997; 97US-0062250P.
PR 21-OCT-1997; 97US-0063486P.
PR 24-OCT-1997; 97US-0063120P.
PR 24-OCT-1997; 97US-0063121P.
PR 28-OCT-1997; 97US-0063540P.
PR 28-OCT-1997; 97US-0063541P.
PR 28-OCT-1997; 97US-0063544P.
PR 28-OCT-1997; 97US-0063564P.
PR 29-OCT-1997; 97US-0063734P.
PR 31-OCT-1997; 97US-0063870P.
PR 31-OCT-1997; 97US-0064103P.
PR 13-NOV-1997; 97US-0065311P.
PR 21-NOV-1997; 97US-0066120P.
PR 24-NOV-1997; 97US-0066466P.
PR 24-NOV-1997; 97US-0066772P.
PR 11-DEC-1997; 97US-0069335P.
PR 12-DEC-1997; 97US-0069425P.
PR 17-DEC-1997; 97US-0069870P.
PR 18-DEC-1997; 97US-0068017P.
PR 10-MAR-1998; 98US-0077450P.
PR 11-MAR-1998; 98US-0077632P.
PR 11-MAR-1998; 98US-0077649P.
PR 20-MAR-1998; 98US-0078886P.
PR 20-MAR-1998; 98US-0078939P.
PR 27-MAR-1998; 98US-0079664P.
PR 27-MAR-1998; 98US-0079786P.
PR 31-MAR-1998; 98US-0080107P.
PR 31-MAR-1998; 98US-0080194P.
PR 01-APR-1998; 98US-0080327P.
PR 01-APR-1998; 98US-0080333P.
PR 08-APR-1998; 98US-0081049P.
PR 08-APR-1998; 98US-0081070P.
PR 09-APR-1998; 98US-0081195P.
PR 15-APR-1998; 98US-0081838P.
PR 21-APR-1998; 98US-0082568P.
PR 22-APR-1998; 98US-0082569P.
PR 22-APR-1998; 98US-0082704P.
PR 28-APR-1998; 98US-0082797P.
PR 28-APR-1998; 98US-0083322P.
PR 29-APR-1998; 98US-0083495P.
PR 29-APR-1998; 98US-0083496P.
PR 29-APR-1998; 98US-0083499P.
PR 29-APR-1998; 98US-0083599P.
PR 05-MAY-1998; 98US-0084366P.
PR 06-MAY-1998; 98US-0084414P.
PR 07-MAY-1998; 98US-0084639P.
PR 07-MAY-1998; 98US-0084640P.
PR 07-MAY-1998; 98US-0084643P.
PR 15-MAY-1998; 98US-0085579P.
PR 15-MAY-1998; 98US-0085580P.
PR 15-MAY-1998; 98US-0085582P.
PR 15-MAY-1998; 98US-0085700P.
PR 18-MAY-1998; 98US-0086023P.
PR 22-MAY-1998; 98US-0086392P.
PR 22-MAY-1998; 98US-0086486P.
PR 28-MAY-1998; 98US-0087098P.
PR 28-MAY-1998; 98US-0087208P.
PR 02-JUN-1998; 98US-0087609P.
PR 02-JUN-1998; 98US-0087759P.
PR 03-JUN-1998; 98US-0087827P.
PR 04-JUN-1998; 98US-0088025P.
PR 04-JUN-1998; 98US-0088028P.
PR 04-JUN-1998; 98US-0088029P.
PR 04-JUN-1998; 98US-0088033P.
PR 04-JUN-1998; 98US-0088326P.
PR 05-JUN-1998; 98US-0088167P.
PR 05-JUN-1998; 98US-0088202P.
PR 05-JUN-1998; 98US-0088212P.
PR 05-JUN-1998; 98US-0088217P.
PR 09-JUN-1998; 98US-0088555P.
PR 10-JUN-1998; 98US-0088722P.
PR 10-JUN-1998; 98US-0088738P.
PR 10-JUN-1998; 98US-0088740P.
PR 10-JUN-1998; 98US-0088811P.
PR 10-JUN-1998; 98US-0088824P.
PR 10-JUN-1998; 98US-0088825P.
PR 10-JUN-1998; 98US-0088826P.
PR 11-JUN-1998; 98US-0088863P.
PR 11-JUN-1998; 98US-0088861P.
PR 11-JUN-1998; 98US-0088876P.
PR 12-JUN-1998; 98US-0089090P.
PR 12-JUN-1998; 98US-0089105P.
PR 16-JUN-1998; 98US-0089512P.
PR 16-JUN-1998; 98US-0089514P.
PR 17-JUN-1998; 98US-0089538P.
PR 17-JUN-1998; 98US-0089598P.
PR 17-JUN-1998; 98US-0089533P.
PR 18-JUN-1998; 98US-0089908P.
PR 19-JUN-1998; 98US-0089952P.
PR 22-JUN-1998; 98US-0090246P.
PR 22-JUN-1998; 98US-0090252P.
PR 22-JUN-1998; 98US-0090254P.
PR 24-JUN-1998; 98US-0090429P.
PR 24-JUN-1998; 98US-0090435P.
PR 24-JUN-1998; 98US-0090444P.
PR 24-JUN-1998; 98US-0090461P.
PR 24-JUN-1998; 98US-0090535P.
PR 24-JUN-1998; 98US-0090540P.
PR 25-JUN-1998; 98US-0090676P.
PR 25-JUN-1998; 98US-0090678P.
PR 25-JUN-1998; 98US-0090688P.
PR 25-JUN-1998; 98US-0090690P.
PR 25-JUN-1998; 98US-0090694P.
PR 25-JUN-1998; 98US-0090695P.
PR 25-JUN-1998; 98US-0090696P.
PR 26-JUN-1998; 98US-00105413.

| | | | | | |
|-----------------|----------------|--|--|--|--|
| PR 26-JUN-1998; | 98US-0090862P. | Best Local Similarity 100.0%; Pred. No. 0; | | | |
| PR 26-JUN-1998; | 98US-0090863P. | Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0; | | | |
| PR 26-JUN-1998; | 98US-0091010P. | | | | |
| PR 01-JUL-1998; | 98US-0091359P. | | | | |
| PR 01-JUL-1998; | 98US-0091544P. | | | | |
| PR 02-JUL-1998; | 98US-0091478P. | | | | |
| PR 02-JUL-1998; | 98US-0091486P. | | | | |
| PR 02-JUL-1998; | 98US-0091626P. | | | | |
| PR 02-JUL-1998; | 98US-0091628P. | | | | |
| PR 02-JUL-1998; | 98US-0091632P. | | | | |
| PR 24-JUL-1998; | 98US-0094006P. | | | | |
| PR 04-AUG-1998; | 98US-0095282P. | | | | |
| PR 10-AUG-1998; | 98US-0095988P. | | | | |
| PR 10-AUG-1998; | 98US-0096012P. | | | | |
| PR 17-AUG-1998; | 98US-0096757P. | | | | |
| PR 17-AUG-1998; | 98US-0096766P. | | | | |
| PR 17-AUG-1998; | 98US-0096867P. | | | | |
| PR 17-AUG-1998; | 98US-0096891P. | | | | |
| PR 17-AUG-1998; | 98US-0096897P. | | | | |
| PR 18-AUG-1998; | 98US-0096949P. | | | | |
| PR 18-AUG-1998; | 98US-0096959P. | | | | |
| PR 18-AUG-1998; | 98US-0097022P. | | | | |
| PR 26-AUG-1998; | 98US-0097952P. | | | | |
| PR 26-AUG-1998; | 98US-0097954P. | | | | |
| PR 26-AUG-1998; | 98US-0097955P. | | | | |
| PR 26-AUG-1998; | 98US-0097971P. | | | | |
| PR 26-AUG-1998; | 98US-0097974P. | | | | |
| PR 26-AUG-1998; | 98US-0098014P. | | | | |
| PR 01-SEP-1998; | 98US-0098716P. | | | | |
| PR 01-SEP-1998; | 98US-0098723P. | | | | |
| PR 02-SEP-1998; | 98US-0098803P. | | | | |
| PR 02-SEP-1998; | 98US-0098821P. | | | | |
| PR 02-SEP-1998; | 98US-0098843P. | | | | |
| PR 09-SEP-1998; | 98US-0099602P. | | | | |
| PR 10-SEP-1998; | 98US-0099741P. | | | | |
| PR 10-SEP-1998; | 98US-0099754P. | | | | |
| PR 10-SEP-1998; | 98US-0099763P. | | | | |
| PR 10-SEP-1998; | 98US-0099812P. | | | | |
| PR 15-SEP-1998; | 98US-0100388P. | | | | |
| PR 16-SEP-1998; | 98US-0100662P. | | | | |
| PR 16-SEP-1998; | 98US-0100664P. | | | | |
| PR 16-SEP-1998; | 98US-0101751P. | | | | |
| PR 16-SEP-1998; | 98WO-US019330. | | | | |
| PR 17-SEP-1998; | 98US-0100683P. | | | | |
| PR 17-SEP-1998; | 98US-0100684P. | | | | |
| PR 17-SEP-1998; | 98US-0100919P. | | | | |
| PR 17-SEP-1998; | 98US-0100910P. | | | | |
| PR 18-SEP-1998; | 98US-0100849P. | | | | |
| PR 18-SEP-1998; | 98US-0101014P. | | | | |
| PR 18-SEP-1998; | 98US-0101068P. | | | | |
| PR 23-SEP-1998; | 98US-0101471P. | | | | |
| PR 23-SEP-1998; | 98US-0101472P. | | | | |
| PR 23-SEP-1998; | 98US-0101475P. | | | | |
| PR 23-SEP-1998; | 98US-0101477P. | | | | |
| PR 24-SEP-1998; | 98US-0101738P. | | | | |
| PR 24-SEP-1998; | 98US-0101739P. | | | | |
| PR 24-SEP-1998; | 98US-0101743P. | | | | |
| PR 24-SEP-1998; | 98US-0101922P. | | | | |
| PR 25-SEP-1998; | 98US-0101786P. | | | | |
| PR 29-SEP-1998; | 98US-0102207P. | | | | |
| PR 29-SEP-1998; | 98US-0102240P. | | | | |
| PR 29-SEP-1998; | 98US-0102330P. | | | | |
| PR 29-SEP-1998; | 98US-0102331P. | | | | |
| PR 30-SEP-1998; | 98US-0102487P. | | | | |
| PR 30-SEP-1998; | 98US-0102570P. | | | | |
| PR 30-SEP-1998; | 98US-0102571P. | | | | |
| PR 01-OCT-1998; | 98US-0102684P. | | | | |
| PR 01-OCT-1998; | 98US-0102687P. | | | | |
| PR 02-OCT-1998; | 98US-0102965P. | | | | |
| PR 06-OCT-1998; | 98US-0103258P. | | | | |
| PR 06-OCT-1998; | 98US-0103449P. | | | | |

Query Match 94.3%; Score 417; DB 6; Length 440;

RESULT 54

ABO19127

ID ABO19127 standard; protein; 440 AA.

XX ABO19127;

DT 27-AUG-2003 (first entry)

XX

DE Novel human secreted and transmembrane protein PRO355.

XX

KW Human; secreted and transmembrane protein; PRO; chromosome mapping;

KW gene mapping; transgenic animal; knockout animal; tissue typing;

KW chromosome identification; tumour; chondrocyte proliferation;

KW chondrocyte differentiation; tumour; tumour necrosis factor-alpha release;

KW gene therapy.

OS Homo sapiens.

XX

PN US2003036118-A1.

XX

PD 20-FEB-2003.

XX

PF 21-JUN-2002; 2002US-00176760.

XX

PR 26-JUN-1998; 98US-00105413.

PR 16-SEP-1998; 98WO-US019330.

PR 07-OCT-1998; 98US-00168978.

PR 07-OCT-1998; 98WO-US021141.

PR 06-NOV-1998; 98US-00187368.

PR 01-DEC-1998; 98WO-US025108.

PR 07-DEC-1998; 98US-00202054.

PR 03-MAR-1999; 99US-00254311.

PR 08-MAR-1999; 99WO-US005028.

PR 14-MAY-1999; 99US-00311832.

PR 14-MAY-1999; 99WO-US010733.

PR 02-JUN-1999; 99WO-US012252.

PR 25-AUG-1999; 99US-00380137.

PR 25-AUG-1999; 99US-00380138.

PR 25-AUG-1999; 99US-00380139.

PR 23-AUG-1999; 99US-00380142.

PR 01-SEP-1999; 99WO-US020111.


```
PR 15-SEP-1999; 99WO-US021090.
PR 18-OCT-1999; 99US-00403297.
PR 12-NOV-1999; 99US-00423844.
PR 01-DEC-1999; 99WO-US028301.
PR 02-DEC-1999; 99WO-US028551.
PR 30-DEC-1999; 99WO-US031274.
PR 05-JAN-2000; 2000WO-US000219.
PR 18-FEB-2000; 2000WO-US004341.
PR 18-FEB-2000; 2000WO-US004342.
PR 22-FEB-2000; 2000WO-US004414.
PR 24-FEB-2000; 2000WO-US005004.
PR 01-MAR-2000; 2000WO-US005601.
PR 02-MAR-2000; 2000WO-US005841.
PR 15-MAR-2000; 2000WO-US006884.
PR 30-MAR-2000; 2000WO-US008439.
PR 17-MAY-2000; 2000WO-US013705.
PR 22-MAY-2000; 2000WO-US014042.
PR 30-MAY-2000; 2000WO-US014941.
PR 02-JUN-2000; 2000WO-US015264.
PR 28-JUL-2000; 2000WO-US020710.
PR 22-AUG-2000; 2000US-00644848.
PR 24-AUG-2000; 2000WO-US023328.
PR 18-SEP-2000; 2000US-00664610.
PR 18-SEP-2000; 2000US-00665350.
PR 08-NOV-2000; 2000US-00709238.
PR 08-NOV-2000; 2000WO-US030952.
PR 01-DEC-2000; 2000WO-US032678.
PR 20-DEC-2000; 2000US-00747259.
PR 20-DEC-2000; 2000WO-US034956.
PR 28-FEB-2001; 2001WO-US006520.
PR 22-MAR-2001; 2001US-00816744.
PR 10-MAY-2001; 2001US-00854208.
PR 10-MAY-2001; 2001US-00854280.
PR 25-MAY-2001; 2001US-00866028.
PR 01-JUN-2001; 2001WO-US017800.
PR 05-JUN-2001; 2001US-00874503.
PR 20-JUN-2001; 2001WO-US019692.
PR 28-JUN-2001; 2001WO-US021066.
PR 09-JUL-2001; 2001WO-US021735.
PR 18-JUL-2001; 2001US-00908827.
PR 30-JUL-2001; 2001US-00918585.
PR 06-AUG-2001; 2001US-00924419.
PR 13-AUG-2001; 2001US-00929404.
PR 18-AUG-2001; 2001US-00931836.
PR 28-AUG-2001; 2001WO-US027099.
PR 04-SEP-2001; 2001US-00946374.
PR 15-JAN-2002; 2002US-00052586.
PA (GETH ) GENENTECH INC.
XX
XX Baker KP, Chen J, Desnoyers L, Goddard A, Godowski PJ, Gurney AL;
PI Pan J, Smith V, Watanabe CK, Wood WI, Zhang Z;
XX
XX WPI; 2003-402071/38.
DR N-PSDB; ACD25374.
XX
XX New secreted and transmembrane PRO polypeptides and nucleic acids, useful
PT in gene therapy, chromosome identification, tissue typing, for detecting
PT the presence of tumor in a mammal, or as hybridization probes in gene
PT mapping.
XX
XX Claim 11; Fig 34; 707pp; English.
XX
XX The invention describes a novel isolated PRO polypeptide. The PRO
CC polypeptide or anti-PRO antibody is useful for preparing a medicament for
CC treating a condition that is responsive to the PRO polypeptide or anti-
CC PRO antibody. The PRO nucleotide sequences are useful as hybridisation
CC probes in chromosome and gene mapping, or in generating antisense RNA and
CC DNA. PRO nucleic acids are also useful in preparing PRO polypeptides, in
CC assays to identify other proteins or molecules involved in binding
CC reaction, to generate transgenic animals or knockout animals, which in
CC turn are useful in the development and screening of therapeutically
```

```
CC useful reagents, for chromosome identification, and tissue typing. The
CC PRO polypeptides and nucleic acid molecules are also useful for detecting
CC the presence of tumor in a mammal, stimulating proliferation or
CC differentiation of chondrocyte cells, stimulating the release of tumor
CC necrosis factor-alpha from human blood, in gene therapy, or as molecular
CC weight markers for protein electrophoresis purposes. The anti-PRO
CC antibodies may be used in diagnostic assays for PRO, or for the affinity
CC purification of PRO from recombinant cell culture or natural sources.
CC This is the amino acid sequence of a novel human secreted and
CC transmembrane PRO polypeptide
XX
SQ Sequence 440 AA;
Query Match 94.3%; Score 417; DB 6; Length 440;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 26 LRLLLLLFSAALIPGTGGQNLFTKDVTVIEGVATISCVNKSDDSVIQLLPNRTIY 85
DB 24 LRLLLLLFSAALIPGTGGQNLFTKDVTVIEGVATISCVNKSDDSVIQLLPNRTIY 83
QY 86 FRDRLKDSRFQLLNFSSSELKSLTNVSIISDEGRYFCQLYTDPPOESYTTITVLVPPR 145
DB 84 FRDRLKDSRFQLLNFSSSELKSLTNVSIISDEGRYFCQLYTDPPOESYTTITVLVPPR 143
QY 146 NLMIDIQKDTAVGEIEVNCVTAMASKPATIRFWKGNTELKSKSEVEEWSMTYVTSOL 205
DB 144 NLMIDIQKDTAVGEIEVNCVTAMASKPATIRFWKGNTELKSKSEVEEWSMTYVTSOL 203
QY 206 MLKVHKEDDGPVICOVEHPAVTGNLQTRYLEVQYKPVHIOQWYPLQGLTRGDALEL 265
DB 204 MLKVHKEDDGPVICOVEHPAVTGNLQTRYLEVQYKPVHIOQWYPLQGLTRGDALEL 263
QY 266 TCEAIGKQPQVMVTVWRVDDMPQHAVLSGNLFINNKNKTNGTYRCEASNIVGKAHSD 325
DB 264 TCEAIGKQPQVMVTVWRVDDMPQHAVLSGNLFINNKNKTNGTYRCEASNIVGKAHSD 323
QY 326 YMLYVDPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 385
DB 324 YMLYVDPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 383
QY 386 FAMLCLLIILGRYFARHKGTYFTHKAGDADAADATATINAEQQNNSEKKEYFI 442
DB 384 FAMLCLLIILGRYFARHKGTYFTHKAGDADAADATATINAEQQNNSEKKEYFI 440
RESULT 55
ABO11145
ID ABO11145 standard; protein; 440 AA.
XX
XX AC ABO11145;
XX
XX DT 25-AUG-2003 (first entry)
XX
XX DE Human secreted/transmembrane protein (PRO) #17.
XX
XX KW Human; secreted and transmembrane protein; PRO; TNF-alpha;
KW tumour necrosis factor alpha; chondrocyte cell; tumour; gene therapy;
KW tissue typing; adrenal tumour; lung tumour; colon tumour; breast tumour;
KW prostate tumour; rectal tumour; cervical tumour; liver tumour.
XX
XX OS Homo sapiens.
XX
XX PN US2003036123-A1.
XX
XX PD 20-FEB-2003.
XX
XX PF 25-JUN-2002; 2002US-00180551.
XX
XX PR 18-SEP-1997; 97US-0059263P.
XX PR 18-SEP-1997; 97US-0059266P.
XX PR 17-OCT-1997; 97US-0062250P.
XX PR 21-OCT-1997; 97US-0063486P.
```

PR 24-OCT-1997; 97US-00631120P.
PR 24-OCT-1997; 97US-00631121P.
PR 28-OCT-1997; 97US-0063540P.
PR 28-OCT-1997; 97US-0063541P.
PR 28-OCT-1997; 97US-0063544P.
PR 28-OCT-1997; 97US-0063546P.
PR 29-OCT-1997; 97US-0063734P.
PR 31-OCT-1997; 97US-0063870P.
PR 31-OCT-1997; 97US-0064103P.
PR 13-NOV-1997; 97US-0065311P.
PR 21-NOV-1997; 97US-00661120P.
PR 24-NOV-1997; 97US-0066466P.
PR 24-NOV-1997; 97US-0066772P.
PR 11-DEC-1997; 97US-0069335P.
PR 12-DEC-1997; 97US-0069425P.
PR 17-DEC-1997; 97US-0069870P.
PR 18-DEC-1997; 97US-0068017P.
PR 10-MAR-1998; 98US-0077450P.
PR 11-MAR-1998; 98US-0077632P.
PR 11-MAR-1998; 98US-0077649P.
PR 20-MAR-1998; 98US-0078886P.
PR 20-MAR-1998; 98US-0078939P.
PR 27-MAR-1998; 98US-0079664P.
PR 27-MAR-1998; 98US-0079786P.
PR 31-MAR-1998; 98US-0080107P.
PR 31-MAR-1998; 98US-0080194P.
PR 01-APR-1998; 98US-0080327P.
PR 01-APR-1998; 98US-0080333P.
PR 08-APR-1998; 98US-0081049P.
PR 08-APR-1998; 98US-0081070P.
PR 09-APR-1998; 98US-0081195P.
PR 15-APR-1998; 98US-0081838P.
PR 21-APR-1998; 98US-0082568P.
PR 21-APR-1998; 98US-0082569P.
PR 22-APR-1998; 98US-0082704P.
PR 22-APR-1998; 98US-0082797P.
PR 28-APR-1998; 98US-0083322P.
PR 29-APR-1998; 98US-0083495P.
PR 29-APR-1998; 98US-0083496P.
PR 29-APR-1998; 98US-0083499P.
PR 29-APR-1998; 98US-0083559P.
PR 03-MAY-1998; 98US-0084366P.
PR 06-MAY-1998; 98US-0084414P.
PR 07-MAY-1998; 98US-0084639P.
PR 07-MAY-1998; 98US-0084640P.
PR 07-MAY-1998; 98US-0084643P.
PR 15-MAY-1998; 98US-0085579P.
PR 15-MAY-1998; 98US-0085580P.
PR 15-MAY-1998; 98US-0085582P.
PR 15-MAY-1998; 98US-0085700P.
PR 18-MAY-1998; 98US-0086023P.
PR 22-MAY-1998; 98US-0086392P.
PR 22-MAY-1998; 98US-0086486P.
PR 28-MAY-1998; 98US-0087098P.
PR 28-MAY-1998; 98US-0087208P.
PR 02-JUN-1998; 98US-0087609P.
PR 02-JUN-1998; 98US-0087759P.
PR 03-JUN-1998; 98US-0087827P.
PR 04-JUN-1998; 98US-0088025P.
PR 04-JUN-1998; 98US-0088028P.
PR 04-JUN-1998; 98US-0088029P.
PR 04-JUN-1998; 98US-0088033P.
PR 04-JUN-1998; 98US-0088326P.
PR 05-JUN-1998; 98US-0088157P.
PR 05-JUN-1998; 98US-0088202P.
PR 05-JUN-1998; 98US-0088212P.
PR 05-JUN-1998; 98US-0088217P.
PR 09-JUN-1998; 98US-0088655P.
PR 10-JUN-1998; 98US-0088722P.
PR 10-JUN-1998; 98US-0088738P.
PR 10-JUN-1998; 98US-0088740P.
PR 10-JUN-1998; 98US-0088811P.
PR 10-JUN-1998; 98US-0088824P.

PR 10-JUN-1998; 98US-0088825P.
PR 10-JUN-1998; 98US-0088826P.
PR 11-JUN-1998; 98US-0088861P.
PR 11-JUN-1998; 98US-0088863P.
PR 11-JUN-1998; 98US-0088876P.
PR 12-JUN-1998; 98US-0089090P.
PR 12-JUN-1998; 98US-0089105P.
PR 16-JUN-1998; 98US-0089512P.
PR 16-JUN-1998; 98US-0089514P.
PR 17-JUN-1998; 98US-0089538P.
PR 17-JUN-1998; 98US-0089598P.
PR 17-JUN-1998; 98US-0089653P.
PR 18-JUN-1998; 98US-0089908P.
PR 19-JUN-1998; 98US-0089952P.
PR 22-JUN-1998; 98US-0090246P.
PR 22-JUN-1998; 98US-0090252P.
PR 22-JUN-1998; 98US-0090254P.
PR 24-JUN-1998; 98US-0090429P.
PR 24-JUN-1998; 98US-0090435P.
PR 24-JUN-1998; 98US-0090444P.
PR 24-JUN-1998; 98US-0090461P.
PR 24-JUN-1998; 98US-0090535P.
PR 24-JUN-1998; 98US-0090540P.
PR 25-JUN-1998; 98US-0090676P.
PR 25-JUN-1998; 98US-0090678P.
PR 25-JUN-1998; 98US-0090688P.
PR 25-JUN-1998; 98US-0090690P.
PR 25-JUN-1998; 98US-0090694P.
PR 25-JUN-1998; 98US-0090695P.
PR 25-JUN-1998; 98US-0090696P.
PR 26-JUN-1998; 98US-00105413.
PR 26-JUN-1998; 98US-0090862P.
PR 26-JUN-1998; 98US-0090863P.
PR 26-JUN-1998; 98US-0091010P.
PR 01-JUL-1998; 98US-0091359P.
PR 01-JUL-1998; 98US-0091544P.
PR 02-JUL-1998; 98US-0091478P.
PR 02-JUL-1998; 98US-0091486P.
PR 02-JUL-1998; 98US-0091626P.
PR 02-JUL-1998; 98US-0091628P.
PR 02-JUL-1998; 98US-0091632P.
PR 24-JUL-1998; 98US-0094006P.
PR 04-AUG-1998; 98US-0095282P.
PR 10-AUG-1998; 98US-0095998P.
PR 10-AUG-1998; 98US-0096012P.
PR 17-AUG-1998; 98US-0096757P.
PR 17-AUG-1998; 98US-0096766P.
PR 17-AUG-1998; 98US-0096867P.
PR 17-AUG-1998; 98US-0096891P.
PR 17-AUG-1998; 98US-0096897P.
PR 18-AUG-1998; 98US-0096949P.
PR 18-AUG-1998; 98US-0096959P.
PR 18-AUG-1998; 98US-0097022P.
PR 26-AUG-1998; 98US-0097952P.
PR 26-AUG-1998; 98US-0097954P.
PR 26-AUG-1998; 98US-0097955P.
PR 26-AUG-1998; 98US-0097971P.
PR 26-AUG-1998; 98US-0097974P.
PR 26-AUG-1998; 98US-0098014P.
PR 01-SEP-1998; 98US-0098716P.
PR 01-SEP-1998; 98US-0098723P.
PR 02-SEP-1998; 98US-0098803P.
PR 02-SEP-1998; 98US-0098821P.
PR 02-SEP-1998; 98US-0098843P.
PR 09-SEP-1998; 98US-0099602P.
PR 10-SEP-1998; 98US-0099741P.
PR 10-SEP-1998; 98US-0099754P.
PR 10-SEP-1998; 98US-0099763P.
PR 10-SEP-1998; 98US-0099812P.
PR 15-SEP-1998; 98US-0100388P.
PR 16-SEP-1998; 98US-0100662P.
PR 16-SEP-1998; 98US-0100664P.
PR 16-SEP-1998; 98US-0101751P.

```
PR 16-SEP-1998; 98WO-US0191330.
PR 17-SEP-1998; 98US-0100683P.
PR 17-SEP-1998; 98US-0100684P.
PR 17-SEP-1998; 98US-0100919P.
PR 17-SEP-1998; 98US-0100930P.
PR 18-SEP-1998; 98US-0100849P.
PR 18-SEP-1998; 98US-0101014P.
PR 18-SEP-1998; 98US-0101016P.
PR 18-SEP-1998; 98US-0101068P.
PR 23-SEP-1998; 98US-0101471P.
PR 23-SEP-1998; 98US-0101472P.
PR 23-SEP-1998; 98US-0101475P.
PR 23-SEP-1998; 98US-0101477P.
PR 24-SEP-1998; 98US-0101738P.
PR 24-SEP-1998; 98US-0101739P.
PR 24-SEP-1998; 98US-0101743P.
PR 24-SEP-1998; 98US-0101922P.
PR 25-SEP-1998; 98US-0101786P.
PR 25-SEP-1998; 98US-0101787P.
PR 29-SEP-1998; 98US-0102207P.
PR 29-SEP-1998; 98US-0102240P.
PR 29-SEP-1998; 98US-0102330P.
PR 29-SEP-1998; 98US-0102331P.
PR 30-SEP-1998; 98US-0102487P.
PR 30-SEP-1998; 98US-0102570P.
PR 30-SEP-1998; 98US-0102571P.
PR 01-OCT-1998; 98US-0102684P.
PR 01-OCT-1998; 98US-0102687P.
PR 02-OCT-1998; 98US-0102965P.
PR 06-OCT-1998; 98US-0103258P.
PR 06-OCT-1998; 98US-0103449P.

Query Match 94.38; Score 417; DB 6; Length 440;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 26 LRLLLLSAAALPTGQGNLFKQVTVIEGEVATISQWNKSDSDSVIQLLNPRTIY 85
Db 24 LRLLLLSAAALPTGQGNLFKQVTVIEGEVATISQWNKSDSDSVIQLLNPRTIY 83

Qy 86 FRDPRPKDSRFQLLNFSSELKSVLTVNSISDEGRYFCQLYTDPPOESYTTITVLVPPR 145
Db 84 FRDPRPKDSRFQLLNFSSELKSVLTVNSISDEGRYFCQLYTDPPOESYTTITVLVPPR 143

Qy 146 NLMDIQKQFAVGEELVNVCTAMASKPATTIKNTLKGKSEVEEWSMDYVTSOL 205
Db 144 NLMDIQKQFAVGEELVNVCTAMASKPATTIKNTLKGKSEVEEWSMDYVTSOL 203

Qy 206 MLKVHKEDDGPVICQVEHPAVTGNLTQRYLEVQYKQVHIQWYPLQGLTREGDALEL 265
Db 204 MLKVHKEDDGPVICQVEHPAVTGNLTQRYLEVQYKQVHIQWYPLQGLTREGDALEL 263

Qy 266 TCEAIGKQPQVMVTVVRVDDMPQHAVLSGPNLFINLNKTDNGTYRCEASNIIVGKAHSD 325
Db 264 TCEAIGKQPQVMVTVVRVDDMPQHAVLSGPNLFINLNKTDNGTYRCEASNIIVGKAHSD 323

Qy 326 YMLVYVDPPTTIPPTTTTTTTTTTTTTTTTTTTTTITLITDSRAGEGSIKRAVDHAVIGVAVVV 385
Db 324 YMLVYVDPPTTIPPTTTTTTTTTTTTTTTTTTTTTITLITDSRAGEGSIKRAVDHAVIGVAVVV 383

Qy 386 FAMLCLLIIILGRYFARHKGYFTFHEAKGADDAADATTAIINAEQQNNSEKKEYFI 442
Db 384 FAMLCLLIIILGRYFARHKGYFTFHEAKGADDAADATTAIINAEQQNNSEKKEYFI 440

RESULT 56
ABR66763
ID ABR66763 standard; protein; 440 AA.
XX
AC ABR66763;
XX
DT 05-AUG-2003 (first entry)
XX
DE Human secreted polypeptide PRO355, SEQ ID NO:34.
XX
```

```
KW Human; PRO; secreted protein; transmembrane protein;
KW extracellular domain; tumour necrosis factor-alpha; TNF-alpha;
KW chondrocyte; proliferation; differentiation; cartilage disorder;
KW bone disorder; arthritis; sports injury; cancer; tumour; diagnosis;
KW adrenal tumour; lung; colon; breast; prostate; kidney; rectum; cervix;
KW liver; drug screening; transgenic animal; genetic analysis;
KW antiarthritic; vulnery; gene therapy.
XX Homo sapiens.
XX US2003036148-A1.
PN 20-FEB-2003.
PD
XX
PF 02-JUL-2002; 2002US-00187743.
XX
XX 18-SEP-1997; 97US-0059263P.
PR 18-SEP-1997; 97US-0059266P.
PR 17-OCT-1997; 97US-0062250P.
PR 21-OCT-1997; 97US-0063486P.
PR 24-OCT-1997; 97US-0063120P.
PR 28-OCT-1997; 97US-0063121P.
PR 28-OCT-1997; 97US-0063540P.
PR 28-OCT-1997; 97US-0063541P.
PR 28-OCT-1997; 97US-0063544P.
PR 28-OCT-1997; 97US-0063564P.
PR 29-OCT-1997; 97US-0063734P.
PR 31-OCT-1997; 97US-0063870P.
PR 31-OCT-1997; 97US-0064103P.
PR 13-NOV-1997; 97US-0065311P.
PR 24-NOV-1997; 97US-0066120P.
PR 24-NOV-1997; 97US-0066466P.
PR 11-DEC-1997; 97US-0066772P.
PR 12-DEC-1997; 97US-0069335P.
PR 17-DEC-1997; 97US-0069425P.
PR 18-DEC-1997; 97US-0069870P.
PR 18-DEC-1997; 97US-0068017P.
PR 10-MAR-1998; 98US-0077450P.
PR 11-MAR-1998; 98US-0077632P.
PR 11-MAR-1998; 98US-0077649P.
PR 20-MAR-1998; 98US-0078886P.
PR 20-MAR-1998; 98US-0078939P.
PR 27-MAR-1998; 98US-0079664P.
PR 27-MAR-1998; 98US-0079786P.
PR 31-MAR-1998; 98US-0080107P.
PR 31-MAR-1998; 98US-0080194P.
PR 01-APR-1998; 98US-0080327P.
PR 01-APR-1998; 98US-0080333P.
PR 08-APR-1998; 98US-0081049P.
PR 08-APR-1998; 98US-0081070P.
PR 09-APR-1998; 98US-0081195P.
PR 15-APR-1998; 98US-0081838P.
PR 21-APR-1998; 98US-0082568P.
PR 21-APR-1998; 98US-0082569P.
PR 22-APR-1998; 98US-0082704P.
PR 22-APR-1998; 98US-0082797P.
PR 28-APR-1998; 98US-0083322P.
PR 29-APR-1998; 98US-0083495P.
PR 29-APR-1998; 98US-0083496P.
PR 29-APR-1998; 98US-0083499P.
PR 29-APR-1998; 98US-0083559P.
PR 05-MAY-1998; 98US-0084366P.
PR 06-MAY-1998; 98US-0084414P.
PR 07-MAY-1998; 98US-0084639P.
PR 07-MAY-1998; 98US-0084640P.
PR 07-MAY-1998; 98US-0084643P.
PR 15-MAY-1998; 98US-0085579P.
PR 15-MAY-1998; 98US-0085580P.
PR 15-MAY-1998; 98US-0085582P.
PR 15-MAY-1998; 98US-0085700P.
PR 18-MAY-1998; 98US-0086023P.
PR 22-MAY-1998; 98US-0086392P.
PR 22-MAY-1998; 98US-0086486P.
```


| | | | |
|-----------|---|--|-----|
| Dd | 324 | YMLVVDPPPTTPPPTTTTTTTTTTTTIIITDSRAGEEGSIRAVDHAIVGGVAVV | 383 |
| Qy | 386 | FAMLCLLIILGRYFARHKGTFTHEAKGADDAADATAIINAEQQNNSEKKEYFI | 442 |
| Dd | 384 | FAMLCLLIILGRYFARHKGTFTHEAKGADDAADATAIINAEQQNNSEKKEYFI | 440 |
| | | | |
| RESULT 57 | | | |
| ABOI5976 | | | |
| ID | ABOI5976 standard; protein; 440 AA. | | |
| XX | AC | | |
| XX | BOI5976; | | |
| XX | DT | (first entry) | |
| XX | 27-AUG-2003 | | |
| XX | Human secreted/transmembrane protein (PRO) #17. | | |
| XX | HUMAN | Human; secreted and transmembrane protein; PRO; TNF-alpha; | |
| KW | KW | tumour necrosis factor alpha; chondrocyte cell; tumour; gene therapy; | |
| KW | KW | tissue typing; adrenal tumour; lung tumour; colon tumour; breast tumour; | |
| KW | KW | prostate tumour; rectal tumour; cervical tumour; liver tumour. | |
| XX | XX | | |
| OS | Homo sapiens. | | |
| XX | XX | | |
| PN | US2003040060-A1. | | |
| XX | XX | | |
| PD | 27-FEB-2003. | | |
| XX | XX | | |
| Pf | 24-JUN-2002; 2002US-00179525. | | |
| XX | XX | | |
| PR | 18-SEP-1997; | 97US-0059263P. | |
| PR | 18-SEP-1997; | 97US-0059266P. | |
| PR | 17-OCT-1997; | 97US-0062250P. | |
| PR | 21-OCT-1997; | 97US-0063486P. | |
| PR | 24-OCT-1997; | 97US-0063120P. | |
| PR | 24-OCT-1997; | 97US-0063121P. | |
| PR | 28-OCT-1997; | 97US-0063540P. | |
| PR | 28-OCT-1997; | 97US-0063541P. | |
| PR | 28-OCT-1997; | 97US-0063544P. | |
| PR | 28-OCT-1997; | 97US-0063564P. | |
| PR | 29-OCT-1997; | 97US-0063734P. | |
| PR | 31-OCT-1997; | 97US-0063870P. | |
| PR | 31-OCT-1997; | 97US-0064103P. | |
| PR | 13-NOV-1997; | 97US-0065311P. | |
| PR | 21-NOV-1997; | 97US-0066120P. | |
| PR | 24-NOV-1997; | 97US-0066466P. | |
| PR | 24-NOV-1997; | 97US-0066772P. | |
| PR | 11-DEC-1997; | 97US-0069335P. | |
| PR | 17-DEC-1997; | 97US-0069425P. | |
| PR | 18-DEC-1997; | 97US-0069870P. | |
| PR | 10-MAR-1998; | 98US-0068017P. | |
| PR | 11-MAR-1998; | 98US-0077450P. | |
| PR | 11-MAR-1998; | 98US-0077632P. | |
| PR | 20-MAR-1998; | 98US-0077649P. | |
| PR | 20-MAR-1998; | 98US-0078886P. | |
| PR | 27-MAR-1998; | 98US-0078939P. | |
| PR | 27-MAR-1998; | 98US-0079664P. | |
| PR | 27-MAR-1998; | 98US-0079786P. | |
| PR | 31-MAR-1998; | 98US-0080107P. | |
| PR | 31-MAR-1998; | 98US-0080129P. | |
| PR | 01-APR-1998; | 98US-0080327P. | |
| PR | 01-APR-1998; | 98US-0080333P. | |
| PR | 08-APR-1998; | 98US-0081049P. | |
| PR | 08-APR-1998; | 98US-0081070P. | |
| PR | 08-APR-1998; | 98US-0081195P. | |
| PR | 15-APR-1998; | 98US-0081838P. | |
| PR | 21-APR-1998; | 98US-0082568P. | |
| PR | 21-APR-1998; | 98US-0082569P. | |
| PR | 22-APR-1998; | 98US-0082704P. | |
| PR | 22-APR-1998; | 98US-0082797P. | |
| PR | 28-APR-1998; | 98US-0083322P. | |
| PR | 29-APR-1998; | 98US-0083495P. | |
| PR | 29-APR-1998; | 98US-0083496P. | |

PR 27-MAR-1998; 98US-0079664P.
PR 27-MAR-1998; 98US-0079786P.
PR 31-MAR-1998; 98US-0080107P.
PR 31-MAR-1998; 98US-0080194P.
PR 01-APR-1998; 98US-0080327P.
PR 01-APR-1998; 98US-0080333P.
PR 08-APR-1998; 98US-0081049P.
PR 08-APR-1998; 98US-0081070P.
PR 09-APR-1998; 98US-0081195P.
PR 15-APR-1998; 98US-0081838P.
PR 21-APR-1998; 98US-0082568P.
PR 21-APR-1998; 98US-0082569P.
PR 22-APR-1998; 98US-0082704P.
PR 22-APR-1998; 98US-0082757P.
PR 28-APR-1998; 98US-0083322P.
PR 29-APR-1998; 98US-0083495P.
PR 29-APR-1998; 98US-0083496P.
PR 29-APR-1998; 98US-0083499P.
PR 29-APR-1998; 98US-0083559P.
PR 05-MAY-1998; 98US-0084366P.
PR 06-MAY-1998; 98US-0084414P.
PR 07-MAY-1998; 98US-0084639P.
PR 07-MAY-1998; 98US-0084640P.
PR 07-MAY-1998; 98US-0084643P.
PR 15-MAY-1998; 98US-0085579P.
PR 15-MAY-1998; 98US-0085580P.
PR 15-MAY-1998; 98US-0085582P.
PR 15-MAY-1998; 98US-0085700P.
PR 18-MAY-1998; 98US-0086023P.
PR 22-MAY-1998; 98US-0086392P.
PR 22-MAY-1998; 98US-0086486P.
PR 28-MAY-1998; 98US-0087098P.
PR 28-MAY-1998; 98US-0087208P.
PR 02-JUN-1998; 98US-0087609P.
PR 02-JUN-1998; 98US-0087759P.
PR 03-JUN-1998; 98US-0087877P.
PR 04-JUN-1998; 98US-0088025P.
PR 04-JUN-1998; 98US-0088028P.
PR 04-JUN-1998; 98US-0088029P.
PR 04-JUN-1998; 98US-0088033P.
PR 04-JUN-1998; 98US-0088326P.
PR 05-JUN-1998; 98US-0088167P.
PR 05-JUN-1998; 98US-0088202P.
PR 05-JUN-1998; 98US-0088212P.
PR 05-JUN-1998; 98US-0088217P.
PR 09-JUN-1998; 98US-0088655P.
PR 10-JUN-1998; 98US-0088722P.
PR 10-JUN-1998; 98US-0088738P.
PR 10-JUN-1998; 98US-0088740P.
PR 10-JUN-1998; 98US-0088811P.
PR 10-JUN-1998; 98US-0088824P.
PR 10-JUN-1998; 98US-0088825P.
PR 10-JUN-1998; 98US-0088826P.
PR 11-JUN-1998; 98US-0088861P.
PR 11-JUN-1998; 98US-0088863P.
PR 11-JUN-1998; 98US-0088876P.
PR 12-JUN-1998; 98US-0089030P.
PR 12-JUN-1998; 98US-0089105P.
PR 16-JUN-1998; 98US-0089512P.
PR 16-JUN-1998; 98US-0089514P.
PR 17-JUN-1998; 98US-0089538P.
PR 17-JUN-1998; 98US-0089598P.
PR 17-JUN-1998; 98US-0089653P.
PR 18-JUN-1998; 98US-0089908P.
PR 19-JUN-1998; 98US-0089952P.
PR 22-JUN-1998; 98US-0090246P.
PR 22-JUN-1998; 98US-0090252P.
PR 22-JUN-1998; 98US-0090254P.
PR 24-JUN-1998; 98US-0090429P.
PR 24-JUN-1998; 98US-0090435P.
PR 24-JUN-1998; 98US-0090444P.
PR 24-JUN-1998; 98US-0090461P.
PR 24-JUN-1998; 98US-0090535P.

PR 24-JUN-1998; 98US-0090540P.
PR 25-JUN-1998; 98US-0090676P.
PR 25-JUN-1998; 98US-0090678P.
PR 25-JUN-1998; 98US-0090688P.
PR 25-JUN-1998; 98US-0090690P.
PR 25-JUN-1998; 98US-0090694P.
PR 25-JUN-1998; 98US-0090695P.
PR 25-JUN-1998; 98US-0090866P.
PR 26-JUN-1998; 98US-00105413.
PR 26-JUN-1998; 98US-0090862P.
PR 26-JUN-1998; 98US-0090863P.
PR 26-JUN-1998; 98US-0091010P.
PR 01-JUL-1998; 98US-0091359P.
PR 01-JUL-1998; 98US-0091544P.
PR 02-JUL-1998; 98US-0091478P.
PR 02-JUL-1998; 98US-0091486P.
PR 02-JUL-1998; 98US-0091626P.
PR 02-JUL-1998; 98US-0091628P.
PR 02-JUL-1998; 98US-0091632P.
PR 24-JUL-1998; 98US-0094006P.
PR 04-AUG-1998; 98US-0095282P.
PR 10-AUG-1998; 98US-0095988P.
PR 10-AUG-1998; 98US-0096012P.
PR 17-AUG-1998; 98US-0096757P.
PR 17-AUG-1998; 98US-0096766P.
PR 17-AUG-1998; 98US-0096867P.
PR 17-AUG-1998; 98US-0096891P.
PR 17-AUG-1998; 98US-0096897P.
PR 18-AUG-1998; 98US-0096949P.
PR 18-AUG-1998; 98US-0096959P.
PR 18-AUG-1998; 98US-0097022P.
PR 26-AUG-1998; 98US-0097952P.
PR 26-AUG-1998; 98US-0097954P.
PR 26-AUG-1998; 98US-0097955P.
PR 26-AUG-1998; 98US-0097971P.
PR 26-AUG-1998; 98US-0097974P.
PR 26-AUG-1998; 98US-0098014P.
PR 01-SEP-1998; 98US-0098716P.
PR 01-SEP-1998; 98US-0098723P.
PR 02-SEP-1998; 98US-0098803P.
PR 02-SEP-1998; 98US-0098821P.
PR 02-SEP-1998; 98US-0098843P.
PR 03-SEP-1998; 98US-0099602P.
PR 10-SEP-1998; 98US-0099741P.
PR 10-SEP-1998; 98US-0099754P.
PR 10-SEP-1998; 98US-0099763P.
PR 10-SEP-1998; 98US-0099812P.
PR 15-SEP-1998; 98US-0100388P.
PR 16-SEP-1998; 98US-0100662P.
PR 16-SEP-1998; 98US-0100664P.
PR 16-SEP-1998; 98US-0101751P.
PR 16-SEP-1998; 98US-01019330.
PR 17-SEP-1998; 98US-0100683P.
PR 17-SEP-1998; 98US-0100684P.
PR 17-SEP-1998; 98US-0100919P.
PR 17-SEP-1998; 98US-0100930P.
PR 18-SEP-1998; 98US-0100849P.
PR 18-SEP-1998; 98US-0101014P.
PR 18-SEP-1998; 98US-0101068P.
PR 23-SEP-1998; 98US-0101471P.
PR 23-SEP-1998; 98US-0101472P.
PR 23-SEP-1998; 98US-0101475P.
PR 23-SEP-1998; 98US-0101477P.
PR 24-SEP-1998; 98US-0101738P.
PR 24-SEP-1998; 98US-0101739P.
PR 24-SEP-1998; 98US-0101743P.
PR 24-SEP-1998; 98US-0101922P.
PR 25-SEP-1998; 98US-0101786P.
PR 29-SEP-1998; 98US-0102207P.
PR 29-SEP-1998; 98US-0102240P.
PR 29-SEP-1998; 98US-0102330P.
PR 29-SEP-1998; 98US-0102331P.
PR 30-SEP-1998; 98US-0102487P.

Db 384 FAMLCILILGRYPARHKGTGTTHEAKGADDAADATTAIINAEQGNNSBEKKEYFI 440
RESULT 60
ABU65585
ID ABU65585 standard; protein; 440 AA.
XX AC ABU65585;
XX DT 19-MAY-2003 (first entry)
XX DE Human secreted/transmembrane protein, SEQ ID 34.
XX KW Human; PRO; secreted protein; transmembrane protein; cytostatic;
KW antiarthritic; osteopathic; adrenal tumour; lung tumour; colon tumour;
KW breast tumour; prostate tumour; rectal tumour; cervical tumour;
KW liver tumour; TNF-alpha release; arthritis; tumour necrosis factor alpha;
KW chondrocyte cell; bone disorder; cartilage disorder; sports injury.
XX OS Homo sapiens.
XX PN US2003036156-A1.
XX PD 20-FEB-2003.
XX PF 02-JUL-2002; 2002US-00188767.
XX PR 18-SEP-1997; 97US-0059263P.
PR 18-SEP-1997; 97US-0059266P.
PR 17-OCT-1997; 97US-0062250P.
PR 21-OCT-1997; 97US-0063486P.
PR 24-OCT-1997; 97US-0063120P.
PR 24-OCT-1997; 97US-0063121P.
PR 28-OCT-1997; 97US-0063540P.
PR 28-OCT-1997; 97US-0063541P.
PR 28-OCT-1997; 97US-0063544P.
PR 28-OCT-1997; 97US-0063564P.
PR 29-OCT-1997; 97US-0063734P.
PR 31-OCT-1997; 97US-0063870P.
PR 31-OCT-1997; 97US-0064103P.
PR 13-NOV-1997; 97US-0065311P.
PR 21-NOV-1997; 97US-0066120P.
PR 24-NOV-1997; 97US-0066466P.
PR 24-NOV-1997; 97US-0066772P.
PR 11-DEC-1997; 97US-0069335P.
PR 12-DEC-1997; 97US-0069425P.
PR 17-DEC-1997; 97US-0069870P.
PR 18-DEC-1997; 97US-0068017P.
PR 10-MAR-1998; 98US-0077450P.
PR 11-MAR-1998; 98US-0077632P.
PR 11-MAR-1998; 98US-0077649P.
PR 20-MAR-1998; 98US-0078886P.
PR 20-MAR-1998; 98US-0078939P.
PR 27-MAR-1998; 98US-0079664P.
PR 27-MAR-1998; 98US-0079786P.
PR 31-MAR-1998; 98US-0080107P.
PR 31-MAR-1998; 98US-0080194P.
PR 01-APR-1998; 98US-0080327P.
PR 01-APR-1998; 98US-0080333P.
PR 08-APR-1998; 98US-0081049P.
PR 08-APR-1998; 98US-0081070P.
PR 09-APR-1998; 98US-0081195P.
PR 15-APR-1998; 98US-0081838P.
PR 21-APR-1998; 98US-0082568P.
PR 21-APR-1998; 98US-0082569P.
PR 22-APR-1998; 98US-0082704P.
PR 22-APR-1998; 98US-0082797P.
PR 28-APR-1998; 98US-0083322P.
PR 29-APR-1998; 98US-0083495P.
PR 29-APR-1998; 98US-0083496P.
PR 29-APR-1998; 98US-0083499P.
PR 29-APR-1998; 98US-0083559P.
PR 05-MAY-1998; 98US-0084366P.
PR 06-MAY-1998; 98US-0084414P.
PR 07-MAY-1998; 98US-0084639P.
PR 07-MAY-1998; 98US-0084640P.
PR 07-MAY-1998; 98US-0084643P.
PR 15-MAY-1998; 98US-0085579P.
PR 15-MAY-1998; 98US-0085580P.
PR 15-MAY-1998; 98US-0085582P.
PR 15-MAY-1998; 98US-0085700P.
PR 18-MAY-1998; 98US-0086023P.
PR 22-MAY-1998; 98US-0086392P.
PR 22-MAY-1998; 98US-0086486P.
PR 28-MAY-1998; 98US-0087098P.
PR 28-MAY-1998; 98US-0087208P.
PR 02-JUN-1998; 98US-0087609P.
PR 02-JUN-1998; 98US-0087759P.
PR 03-JUN-1998; 98US-0087827P.
PR 04-JUN-1998; 98US-0088025P.
PR 04-JUN-1998; 98US-0088028P.
PR 04-JUN-1998; 98US-0088029P.
PR 04-JUN-1998; 98US-0088033P.
PR 04-JUN-1998; 98US-0088036P.
PR 05-JUN-1998; 98US-0088167P.
PR 05-JUN-1998; 98US-0088202P.
PR 05-JUN-1998; 98US-0088212P.
PR 05-JUN-1998; 98US-0088217P.
PR 09-JUN-1998; 98US-0088555P.
PR 10-JUN-1998; 98US-0088722P.
PR 10-JUN-1998; 98US-0088738P.
PR 10-JUN-1998; 98US-0088740P.
PR 10-JUN-1998; 98US-0088811P.
PR 10-JUN-1998; 98US-0088824P.
PR 10-JUN-1998; 98US-0088825P.
PR 10-JUN-1998; 98US-0088826P.
PR 11-JUN-1998; 98US-0088861P.
PR 11-JUN-1998; 98US-0088863P.
PR 11-JUN-1998; 98US-0088876P.
PR 12-JUN-1998; 98US-0089090P.
PR 12-JUN-1998; 98US-0089105P.
PR 16-JUN-1998; 98US-0089512P.
PR 16-JUN-1998; 98US-0089514P.
PR 17-JUN-1998; 98US-0089538P.
PR 17-JUN-1998; 98US-0089598P.
PR 17-JUN-1998; 98US-0089653P.
PR 18-JUN-1998; 98US-0089908P.
PR 19-JUN-1998; 98US-0089952P.
PR 22-JUN-1998; 98US-0090246P.
PR 22-JUN-1998; 98US-0090252P.
PR 22-JUN-1998; 98US-0090254P.
PR 24-JUN-1998; 98US-0090429P.
PR 24-JUN-1998; 98US-0090435P.
PR 24-JUN-1998; 98US-0090444P.
PR 24-JUN-1998; 98US-0090461P.
PR 24-JUN-1998; 98US-0090535P.
PR 24-JUN-1998; 98US-0090540P.
PR 25-JUN-1998; 98US-0090576P.
PR 25-JUN-1998; 98US-0090678P.
PR 25-JUN-1998; 98US-0090688P.
PR 25-JUN-1998; 98US-0090690P.
PR 25-JUN-1998; 98US-0090694P.
PR 25-JUN-1998; 98US-0090695P.
PR 25-JUN-1998; 98US-0090966P.
PR 26-JUN-1998; 98US-00105413.
PR 26-JUN-1998; 98US-0090862P.
PR 26-JUN-1998; 98US-0090863P.
PR 26-JUN-1998; 98US-0091010P.
PR 01-JUL-1998; 98US-0091359P.
PR 01-JUL-1998; 98US-0091544P.
PR 02-JUL-1998; 98US-0091478P.
PR 02-JUL-1998; 98US-0091486P.
PR 02-JUL-1998; 98US-0091626P.
PR 02-JUL-1998; 98US-0091628P.
PR 02-JUL-1998; 98US-0091632P.
PR 24-JUL-1998; 98US-0094006P.

| | | | |
|--|--------------|---|-------------------------------------|
| PR | 04-AUG-1998; | 98US-0095282P. | |
| PR | 10-AUG-1998; | 98US-0095998P. | |
| PR | 10-AUG-1998; | 98US-0096012P. | |
| PR | 17-AUG-1998; | 98US-0096757P. | |
| PR | 17-AUG-1998; | 98US-0096766P. | |
| PR | 17-AUG-1998; | 98US-0096867P. | |
| PR | 17-AUG-1998; | 98US-0096891P. | |
| PR | 17-AUG-1998; | 98US-0096897P. | |
| PR | 18-AUG-1998; | 98US-0096949P. | |
| PR | 18-AUG-1998; | 98US-0096959P. | |
| PR | 18-AUG-1998; | 98US-0097022P. | |
| PR | 26-AUG-1998; | 98US-0097952P. | |
| PR | 26-AUG-1998; | 98US-0097954P. | |
| PR | 26-AUG-1998; | 98US-0097955P. | |
| PR | 26-AUG-1998; | 98US-0097971P. | |
| PR | 26-AUG-1998; | 98US-0097974P. | |
| PR | 01-SEP-1998; | 98US-0098716P. | |
| PR | 01-SEP-1998; | 98US-0098723P. | |
| PR | 02-SEP-1998; | 98US-0098803P. | |
| PR | 02-SEP-1998; | 98US-0098821P. | |
| PR | 02-SEP-1998; | 98US-0098843P. | |
| PR | 09-SEP-1998; | 98US-0099602P. | |
| PR | 10-SEP-1998; | 98US-0099741P. | |
| PR | 10-SEP-1998; | 98US-0099754P. | |
| PR | 10-SEP-1998; | 98US-0099763P. | |
| PR | 10-SEP-1998; | 98US-0099812P. | |
| PR | 15-SEP-1998; | 98US-0100388P. | |
| PR | 16-SEP-1998; | 98US-0100662P. | |
| PR | 16-SEP-1998; | 98US-0100664P. | |
| PR | 16-SEP-1998; | 98US-0101751P. | |
| PR | 16-SEP-1998; | 98US-0101753P. | |
| PR | 17-SEP-1998; | 98US-0100683P. | |
| PR | 17-SEP-1998; | 98US-0100684P. | |
| PR | 17-SEP-1998; | 98US-0100919P. | |
| PR | 17-SEP-1998; | 98US-0100930P. | |
| PR | 18-SEP-1998; | 98US-0100849P. | |
| PR | 18-SEP-1998; | 98US-0101014P. | |
| PR | 18-SEP-1998; | 98US-0101068P. | |
| PR | 23-SEP-1998; | 98US-0101471P. | |
| PR | 23-SEP-1998; | 98US-0101472P. | |
| PR | 23-SEP-1998; | 98US-0101475P. | |
| PR | 23-SEP-1998; | 98US-0101477P. | |
| PR | 24-SEP-1998; | 98US-0101738P. | |
| PR | 24-SEP-1998; | 98US-0101739P. | |
| PR | 24-SEP-1998; | 98US-0101743P. | |
| PR | 24-SEP-1998; | 98US-0101922P. | |
| PR | 25-SEP-1998; | 98US-0101786P. | |
| PR | 25-SEP-1998; | 98US-0102207P. | |
| PR | 25-SEP-1998; | 98US-0102240P. | |
| PR | 25-SEP-1998; | 98US-0102330P. | |
| PR | 25-SEP-1998; | 98US-0102331P. | |
| PR | 30-SEP-1998; | 98US-0102487P. | |
| PR | 30-SEP-1998; | 98US-0102570P. | |
| PR | 30-SEP-1998; | 98US-0102571P. | |
| PR | 01-OCT-1998; | 98US-0102684P. | |
| PR | 01-OCT-1998; | 98US-0102687P. | |
| PR | 02-OCT-1998; | 98US-0102965P. | |
| PR | 06-OCT-1998; | 98US-0103258P. | |
| Query Match | | | 94.3%; Score 417; DB 6; Length 440; |
| Best Local Similarity | | | 100.0%; Pred. No. 0; |
| Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0; | | | |
| QY | 26 | LRLLLLLFSAAALPTGQGNLFKDVTVIEGEVATISCVQNKSDSDSVIQLLNPRTIY | 85 |
| DB | 24 | LRLLLLLFSAAALPTGQGNLFKDVTVIEGEVATISCVQNKSDSDSVIQLLNPRTIY | 83 |
| QY | 86 | FRDPRPLKDSRFOLLNFSSELKSLTVNVSISDEGRYFCQLYTDPPOESYTTITVLVPPR | 145 |
| DB | 84 | FRDPRPLKDSRFOLLNFSSELKSLTVNVSISDEGRYFCQLYTDPPOESYTTITVLVPPR | 143 |
| QY | 146 | NLMIDIQKOTAVEGEEIEVNCTAMASKPATTIRWFKGNTELKKGSEVEMSDMYTTSQ | 205 |

| | | | |
|-----------|---|---|-----|
| Db | 144 | NLMIDIQKOTAVEGEEIEVNCTAMASKPATTIRWFKGNTELKKGSEVEMSDMYTTSQ | 203 |
| QY | 206 | MLKVHKEDDGPVYICQVEHPAVTGNLQTSRYLEVQVKPQVHIQMTYPLQGLTREGDALEL | 265 |
| Db | 204 | MLKVHKEDDGPVYICQVEHPAVTGNLQTSRYLEVQVKPQVHIQMTYPLQGLTREGDALEL | 263 |
| QY | 266 | TCEAIGKQPQPMVMTWVRVDDDEMPQHAVLSGPNLFINNKNKTNDNGTYRCEASNIVGKAHSD | 325 |
| Db | 264 | TCEAIGKQPQPMVMTWVRVDDDEMPQHAVLSGPNLFINNKNKTNDNGTYRCEASNIVGKAHSD | 323 |
| QY | 326 | YMLYVDDPPTTIPPTTTTTTTTTTTTTTTTTTTTTITDTSRAGEEGSIRAVDHAIVGGWAVV | 385 |
| Db | 324 | YMLYVDDPPTTIPPTTTTTTTTTTTTTTTTTTTTTITDTSRAGEEGSIRAVDHAIVGGWAVV | 383 |
| QY | 386 | FAMLCLLLIILGRYPARHKGTFTHEAKGADDAADATTAIINAEAGGQNNSEKKEYFI | 442 |
| Db | 384 | FAMLCLLLIILGRYPARHKGTFTHEAKGADDAADATTAIINAEAGGQNNSEKKEYFI | 440 |
| RESULT 61 | | | |
| ABO07433 | | | |
| ID | ABO07433 | standard; protein; 440 AA. | |
| XX | AC | ABO07433; | |
| XX | XX | | |
| DT | 18-AUG-2003 | (first entry) | |
| XX | XX | | |
| DE | Human PRO polypeptide #17. | | |
| XX | XX | | |
| KW | Human; PRO; secreted polypeptide; transmembrane polypeptide; cytostatic; | | |
| KW | tumour necrosis factor-alpha; TNF-alpha; blood; tumour; chondrocyte cell; | | |
| KW | cancer. | | |
| XX | OS | Homo sapiens. | |
| XX | XX | | |
| PN | US2003032117-A1. | | |
| XX | XX | | |
| PD | 13-FEB-2003. | | |
| XX | XX | | |
| PF | 24-JUN-2002; 2002US-00179510. | | |
| XX | XX | | |
| PR | 18-SEP-1997; | 97US-0059263P. | |
| PR | 18-SEP-1997; | 97US-0059266P. | |
| PR | 17-OCT-1997; | 97US-0062250P. | |
| PR | 21-OCT-1997; | 97US-0063486P. | |
| PR | 24-OCT-1997; | 97US-0063120P. | |
| PR | 24-OCT-1997; | 97US-0063121P. | |
| PR | 28-OCT-1997; | 97US-0063540P. | |
| PR | 28-OCT-1997; | 97US-0063541P. | |
| PR | 28-OCT-1997; | 97US-0063544P. | |
| PR | 28-OCT-1997; | 97US-0063564P. | |
| PR | 28-OCT-1997; | 97US-0063734P. | |
| PR | 31-OCT-1997; | 97US-0063870P. | |
| PR | 31-OCT-1997; | 97US-0064103P. | |
| PR | 13-NOV-1997; | 97US-0065311P. | |
| PR | 21-NOV-1997; | 97US-0066120P. | |
| PR | 24-NOV-1997; | 97US-0066466P. | |
| PR | 24-NOV-1997; | 97US-0066772P. | |
| PR | 11-DEC-1997; | 97US-0069335P. | |
| PR | 12-DEC-1997; | 97US-0069425P. | |
| PR | 17-DEC-1997; | 97US-0069870P. | |
| PR | 18-DEC-1997; | 97US-0068017P. | |
| PR | 10-MAR-1998; | 98US-0077450P. | |
| PR | 11-MAR-1998; | 98US-0077632P. | |
| PR | 11-MAR-1998; | 98US-0077649P. | |
| PR | 20-MAR-1998; | 98US-0078886P. | |
| PR | 20-MAR-1998; | 98US-0078939P. | |
| PR | 27-MAR-1998; | 98US-0079664P. | |
| PR | 27-MAR-1998; | 98US-0079786P. | |
| PR | 31-MAR-1998; | 98US-0080107P. | |
| PR | 31-MAR-1998; | 98US-0080194P. | |
| PR | 01-APR-1998; | 98US-0080327P. | |

PR 01-APR-1998; 98US-0080333P.
PR 08-APR-1998; 98US-0081049P.
PR 08-APR-1998; 98US-0081070P.
PR 09-APR-1998; 98US-0081195P.
PR 15-APR-1998; 98US-0081838P.
PR 21-APR-1998; 98US-0082568P.
PR 21-APR-1998; 98US-0082569P.
PR 22-APR-1998; 98US-0082704P.
PR 22-APR-1998; 98US-0082797P.
PR 28-APR-1998; 98US-0083322P.
PR 29-APR-1998; 98US-0083495P.
PR 29-APR-1998; 98US-0083496P.
PR 29-APR-1998; 98US-0083499P.
PR 29-APR-1998; 98US-0083599P.
PR 05-MAY-1998; 98US-0084366P.
PR 06-MAY-1998; 98US-0084414P.
PR 07-MAY-1998; 98US-0084639P.
PR 07-MAY-1998; 98US-0084640P.
PR 07-MAY-1998; 98US-0084643P.
PR 15-MAY-1998; 98US-0085579P.
PR 15-MAY-1998; 98US-0085580P.
PR 15-MAY-1998; 98US-0085582P.
PR 15-MAY-1998; 98US-0085700P.
PR 18-MAY-1998; 98US-0086023P.
PR 22-MAY-1998; 98US-0086392P.
PR 22-MAY-1998; 98US-0086486P.
PR 28-MAY-1998; 98US-0087098P.
PR 28-MAY-1998; 98US-0087208P.
PR 02-JUN-1998; 98US-0087609P.
PR 02-JUN-1998; 98US-0087759P.
PR 03-JUN-1998; 98US-0087827P.
PR 04-JUN-1998; 98US-0088025P.
PR 04-JUN-1998; 98US-0088028P.
PR 04-JUN-1998; 98US-0088029P.
PR 04-JUN-1998; 98US-0088033P.
PR 04-JUN-1998; 98US-0088326P.
PR 05-JUN-1998; 98US-0088167P.
PR 05-JUN-1998; 98US-0088202P.
PR 05-JUN-1998; 98US-0088212P.
PR 05-JUN-1998; 98US-0088217P.
PR 09-JUN-1998; 98US-0088655P.
PR 10-JUN-1998; 98US-0088722P.
PR 10-JUN-1998; 98US-0088738P.
PR 10-JUN-1998; 98US-0088740P.
PR 10-JUN-1998; 98US-0088811P.
PR 10-JUN-1998; 98US-0088824P.
PR 10-JUN-1998; 98US-0088825P.
PR 10-JUN-1998; 98US-0088826P.
PR 11-JUN-1998; 98US-0088861P.
PR 11-JUN-1998; 98US-0088863P.
PR 11-JUN-1998; 98US-0088876P.
PR 12-JUN-1998; 98US-0089090P.
PR 12-JUN-1998; 98US-0089105P.
PR 16-JUN-1998; 98US-0089512P.
PR 16-JUN-1998; 98US-0089514P.
PR 17-JUN-1998; 98US-0089538P.
PR 17-JUN-1998; 98US-0089598P.
PR 17-JUN-1998; 98US-0089653P.
PR 18-JUN-1998; 98US-0089908P.
PR 19-JUN-1998; 98US-0089952P.
PR 22-JUN-1998; 98US-0090246P.
PR 22-JUN-1998; 98US-0090252P.
PR 22-JUN-1998; 98US-0090254P.
PR 24-JUN-1998; 98US-0090429P.
PR 24-JUN-1998; 98US-0090435P.
PR 24-JUN-1998; 98US-0090444P.
PR 24-JUN-1998; 98US-0090461P.
PR 24-JUN-1998; 98US-0090535P.
PR 24-JUN-1998; 98US-0090540P.
PR 25-JUN-1998; 98US-0090676P.
PR 25-JUN-1998; 98US-0090678P.
PR 25-JUN-1998; 98US-0090688P.
PR 25-JUN-1998; 98US-0090690P.
PR 25-JUN-1998; 98US-0090694P.
PR 25-JUN-1998; 98US-0090695P.
PR 26-JUN-1998; 98US-00105413.
PR 26-JUN-1998; 98US-0090862P.
PR 26-JUN-1998; 98US-0090863P.
PR 26-JUN-1998; 98US-0091010P.
PR 01-JUL-1998; 98US-0091359P.
PR 01-JUL-1998; 98US-0091544P.
PR 02-JUL-1998; 98US-0091478P.
PR 02-JUL-1998; 98US-0091486P.
PR 02-JUL-1998; 98US-0091626P.
PR 02-JUL-1998; 98US-0091628P.
PR 02-JUL-1998; 98US-0091632P.
PR 24-JUL-1998; 98US-0094006P.
PR 04-AUG-1998; 98US-0095282P.
PR 10-AUG-1998; 98US-0095998P.
PR 10-AUG-1998; 98US-0096012P.
PR 17-AUG-1998; 98US-0096757P.
PR 17-AUG-1998; 98US-0096766P.
PR 17-AUG-1998; 98US-0096867P.
PR 17-AUG-1998; 98US-0096891P.
PR 17-AUG-1998; 98US-0096897P.
PR 18-AUG-1998; 98US-0096949P.
PR 18-AUG-1998; 98US-0096959P.
PR 18-AUG-1998; 98US-0097022P.
PR 26-AUG-1998; 98US-0097952P.
PR 26-AUG-1998; 98US-0097954P.
PR 26-AUG-1998; 98US-0097955P.
PR 26-AUG-1998; 98US-0097971P.
PR 26-AUG-1998; 98US-0097974P.
PR 26-AUG-1998; 98US-0098014P.
PR 01-SEP-1998; 98US-0098716P.
PR 02-SEP-1998; 98US-0098723P.
PR 02-SEP-1998; 98US-0098803P.
PR 02-SEP-1998; 98US-0098821P.
PR 02-SEP-1998; 98US-0098843P.
PR 09-SEP-1998; 98US-0099602P.
PR 10-SEP-1998; 98US-0099741P.
PR 10-SEP-1998; 98US-0099754P.
PR 10-SEP-1998; 98US-0099763P.
PR 10-SEP-1998; 98US-0099812P.
PR 15-SEP-1998; 98US-0100388P.
PR 16-SEP-1998; 98US-0100662P.
PR 16-SEP-1998; 98US-0100664P.
PR 16-SEP-1998; 98US-0101751P.
PR 16-SEP-1998; 98US-0101751P.
PR 17-SEP-1998; 98US-0100683P.
PR 17-SEP-1998; 98US-0100684P.
PR 17-SEP-1998; 98US-0100919P.
PR 17-SEP-1998; 98US-0100930P.
PR 18-SEP-1998; 98US-0100849P.
PR 18-SEP-1998; 98US-0101014P.
PR 18-SEP-1998; 98US-0101068P.
PR 23-SEP-1998; 98US-0101471P.
PR 23-SEP-1998; 98US-0101472P.
PR 23-SEP-1998; 98US-0101475P.
PR 23-SEP-1998; 98US-0101477P.
PR 24-SEP-1998; 98US-0101738P.
PR 24-SEP-1998; 98US-0101739P.
PR 24-SEP-1998; 98US-0101743P.
PR 24-SEP-1998; 98US-0101922P.
PR 25-SEP-1998; 98US-0101786P.
PR 29-SEP-1998; 98US-0102207P.
PR 29-SEP-1998; 98US-0102240P.
PR 29-SEP-1998; 98US-0102330P.
PR 29-SEP-1998; 98US-0102331P.
PR 30-SEP-1998; 98US-0102487P.
PR 30-SEP-1998; 98US-0102570P.
PR 30-SEP-1998; 98US-0102571P.
PR 01-OCT-1998; 98US-0102684P.
PR 02-OCT-1998; 98US-0102687P.
PR 02-OCT-1998; 98US-0102965P.

XX US2003027266-A1.
XX 06-FEB-2003.
XX 18-JUN-2002; 2002US-00174588.
XX 18-SEP-1997; 97US-0059263P.
PN 18-SEP-1997; 97US-0059266P.
XX 17-OCT-1997; 97US-0062250P.
PD 21-OCT-1997; 97US-0063486P.
XX 24-OCT-1997; 97US-0063120P.
PF 24-OCT-1997; 97US-0063121P.
XX 28-OCT-1997; 97US-0063540P.
XX 28-OCT-1997; 97US-0063541P.
XX 28-OCT-1997; 97US-0063544P.
XX 28-OCT-1997; 97US-0063564P.
XX 29-OCT-1997; 97US-0063734P.
XX 31-OCT-1997; 97US-0063870P.
XX 31-OCT-1997; 97US-0064103P.
XX 13-NOV-1997; 97US-0065311P.
XX 21-NOV-1997; 97US-0066120P.
XX 24-NOV-1997; 97US-0066466P.
XX 24-NOV-1997; 97US-0066772P.
XX 11-DEC-1997; 97US-0069335P.
XX 12-DEC-1997; 97US-0069425P.
XX 17-DEC-1997; 97US-0069870P.
XX 18-DEC-1997; 97US-0068017P.
XX 10-MAR-1998; 98US-0077450P.
XX 11-MAR-1998; 98US-0077632P.
XX 11-MAR-1998; 98US-0077649P.
XX 20-MAR-1998; 98US-0078886P.
XX 20-MAR-1998; 98US-0078939P.
XX 27-MAR-1998; 98US-0079664P.
XX 27-MAR-1998; 98US-0079786P.
XX 31-MAR-1998; 98US-0080107P.
XX 31-MAR-1998; 98US-0080194P.
XX 01-APR-1998; 98US-0080327P.
XX 01-APR-1998; 98US-0080333P.
XX 08-APR-1998; 98US-0081049P.
XX 08-APR-1998; 98US-0081070P.
XX 09-APR-1998; 98US-0081195P.
XX 15-APR-1998; 98US-0081838P.
XX 21-APR-1998; 98US-0082568P.
XX 21-APR-1998; 98US-0082569P.
XX 22-APR-1998; 98US-0082704P.
XX 22-APR-1998; 98US-0082797P.
XX 28-APR-1998; 98US-0083322P.
XX 29-APR-1998; 98US-0083495P.
XX 29-APR-1998; 98US-0083496P.
XX 29-APR-1998; 98US-0083499P.
XX 29-APR-1998; 98US-0083559P.
XX 03-MAY-1998; 98US-0084366P.
XX 06-MAY-1998; 98US-0084414P.
XX 07-MAY-1998; 98US-0084639P.
XX 07-MAY-1998; 98US-0084640P.
XX 07-MAY-1998; 98US-0084643P.
XX 15-MAY-1998; 98US-0085579P.
XX 15-MAY-1998; 98US-0085580P.
XX 15-MAY-1998; 98US-0085582P.
XX 15-MAY-1998; 98US-0085700P.
XX 18-MAY-1998; 98US-0086023P.
XX 22-MAY-1998; 98US-0086392P.
XX 22-MAY-1998; 98US-0086486P.
XX 28-MAY-1998; 98US-0087098P.
XX 28-MAY-1998; 98US-0087208P.
XX 02-JUN-1998; 98US-0087609P.
XX 02-JUN-1998; 98US-0087759P.
XX 03-JUN-1998; 98US-0087827P.
XX 04-JUN-1998; 98US-0088025P.
XX 04-JUN-1998; 98US-0088028P.
XX 04-JUN-1998; 98US-0088029P.
XX 04-JUN-1998; 98US-0088033P.
PR 04-JUN-1998; 98US-0088326P.
PR 05-JUN-1998; 98US-0088167P.
PR 05-JUN-1998; 98US-0088202P.
PR 05-JUN-1998; 98US-0088212P.
PR 05-JUN-1998; 98US-0088217P.
PR 09-JUN-1998; 98US-0088655P.
PR 10-JUN-1998; 98US-0088722P.
PR 10-JUN-1998; 98US-0088738P.
PR 10-JUN-1998; 98US-0088740P.
PR 10-JUN-1998; 98US-0088811P.
PR 10-JUN-1998; 98US-0088824P.
PR 10-JUN-1998; 98US-0088825P.
PR 10-JUN-1998; 98US-0088826P.
PR 11-JUN-1998; 98US-0088861P.
PR 11-JUN-1998; 98US-0088863P.
PR 11-JUN-1998; 98US-0088876P.
PR 12-JUN-1998; 98US-0089090P.
PR 12-JUN-1998; 98US-0089105P.
PR 16-JUN-1998; 98US-0089512P.
PR 16-JUN-1998; 98US-0089514P.
PR 17-JUN-1998; 98US-0089538P.
PR 17-JUN-1998; 98US-0089598P.
PR 17-JUN-1998; 98US-0089653P.
PR 18-JUN-1998; 98US-0089908P.
PR 19-JUN-1998; 98US-0089952P.
PR 22-JUN-1998; 98US-0090246P.
PR 22-JUN-1998; 98US-0090252P.
PR 22-JUN-1998; 98US-0090254P.
PR 24-JUN-1998; 98US-0090429P.
PR 24-JUN-1998; 98US-0090435P.
PR 24-JUN-1998; 98US-0090444P.
PR 24-JUN-1998; 98US-0090461P.
PR 24-JUN-1998; 98US-0090535P.
PR 24-JUN-1998; 98US-0090540P.
PR 25-JUN-1998; 98US-0090676P.
PR 25-JUN-1998; 98US-0090688P.
PR 25-JUN-1998; 98US-0090690P.
PR 25-JUN-1998; 98US-0090694P.
PR 25-JUN-1998; 98US-0090895P.
PR 25-JUN-1998; 98US-0090896P.
PR 26-JUN-1998; 98US-00105413.
PR 26-JUN-1998; 98US-0090862P.
PR 26-JUN-1998; 98US-0090863P.
PR 26-JUN-1998; 98US-0091010P.
PR 01-JUL-1998; 98US-0091359P.
PR 01-JUL-1998; 98US-0091544P.
PR 02-JUL-1998; 98US-0091478P.
PR 02-JUL-1998; 98US-0091486P.
PR 02-JUL-1998; 98US-0091626P.
PR 02-JUL-1998; 98US-0091628P.
PR 02-JUL-1998; 98US-0091632P.
PR 24-JUL-1998; 98US-0094006P.
PR 04-AUG-1998; 98US-0095282P.
PR 10-AUG-1998; 98US-0095998P.
PR 10-AUG-1998; 98US-0096012P.
PR 17-AUG-1998; 98US-0096757P.
PR 17-AUG-1998; 98US-0096766P.
PR 17-AUG-1998; 98US-0096867P.
PR 17-AUG-1998; 98US-0096891P.
PR 17-AUG-1998; 98US-0096897P.
PR 18-AUG-1998; 98US-0096949P.
PR 18-AUG-1998; 98US-0096959P.
PR 18-AUG-1998; 98US-0097022P.
PR 26-AUG-1998; 98US-0097952P.
PR 26-AUG-1998; 98US-0097954P.
PR 26-AUG-1998; 98US-0097955P.
PR 26-AUG-1998; 98US-0097971P.
PR 26-AUG-1998; 98US-0097974P.
PR 26-AUG-1998; 98US-0098014P.
PR 01-SEP-1998; 98US-0098716P.
PR 01-SEP-1998; 98US-0098723P.
PR 02-SEP-1998; 98US-0098803P.

```
PR 02-SEP-1998; 98US-0098821P.
PR 02-SEP-1998; 98US-0098843P.
PR 09-SEP-1998; 98US-0098602P.
PR 10-SEP-1998; 98US-0099741P.
PR 10-SEP-1998; 98US-0099754P.
PR 10-SEP-1998; 98US-0099763P.
PR 10-SEP-1998; 98US-0099812P.
PR 15-SEP-1998; 98US-0100388P.
PR 16-SEP-1998; 98US-0100682P.
PR 16-SEP-1998; 98US-0100664P.
PR 16-SEP-1998; 98US-0101751P.
PR 16-SEP-1998; 98WO-US019330.
PR 17-SEP-1998; 98US-0100683P.
PR 17-SEP-1998; 98US-0100684P.
PR 17-SEP-1998; 98US-0100919P.
PR 17-SEP-1998; 98US-0100930P.
PR 18-SEP-1998; 98US-0100849P.
PR 18-SEP-1998; 98US-0101014P.
PR 18-SEP-1998; 98US-0101068P.
PR 23-SEP-1998; 98US-0101471P.
PR 23-SEP-1998; 98US-0101472P.
PR 23-SEP-1998; 98US-0101475P.
PR 23-SEP-1998; 98US-0101477P.
PR 24-SEP-1998; 98US-0101738P.
PR 24-SEP-1998; 98US-0101739P.
PR 24-SEP-1998; 98US-0101743P.
PR 24-SEP-1998; 98US-0101922P.
PR 25-SEP-1998; 98US-0101786P.
PR 29-SEP-1998; 98US-0102207P.
PR 29-SEP-1998; 98US-0102240P.
PR 29-SEP-1998; 98US-0102330P.
PR 29-SEP-1998; 98US-0102331P.
PR 30-SEP-1998; 98US-0102487P.
PR 30-SEP-1998; 98US-0102570P.
PR 30-SEP-1998; 98US-0102571P.
PR 01-OCT-1998; 98US-0102684P.
PR 01-OCT-1998; 98US-0102687P.

Query Match 94.3%; Score 417; DB 6; Length 440;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 26 LRLLLLFSAALIPGQNLFTKDVTVIEGEVATISCVNKSDDSVIOLLNPNRTIY 85
Db 24 LRLLLLFSAALIPGQNLFTKDVTVIEGEVATISCVNKSDDSVIOLLNPNRTIY 83

Qy 86 FRDPRPLKDSRFQNLNFSSELKVSNTNVSISDEGRYFCQLYTDPPQESYTTITVLVPPR 145
Db 84 FRDPRPLKDSRFQNLNFSSELKVSNTNVSISDEGRYFCQLYTDPPQESYTTITVLVPPR 143

Qy 146 NLMDIQKDTAVEGEEIEVNCTAMASKPATIRFWKGNTELKKGSEVEEWSMDYVTSQ 205
Db 144 NLMDIQKDTAVEGEEIEVNCTAMASKPATIRFWKGNTELKKGSEVEEWSMDYVTSQ 203

Qy 206 MLKVHKEDDGPVNLCOVEHPAVTGNLTQRYLEVQYKPOVHIQMTYPLQGLTREGDALE 265
Db 204 MLKVHKEDDGPVNLCOVEHPAVTGNLTQRYLEVQYKPOVHIQMTYPLQGLTREGDALE 263

Qy 266 TCEAIGKQPQVMVTTWVDDMPQHAVLSGNLFINLNKTDNGTYCEASNIVGKAHSD 325
Db 264 TCEAIGKQPQVMVTTWVDDMPQHAVLSGNLFINLNKTDNGTYCEASNIVGKAHSD 323

Qy 326 YMLVYVDPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 385
Db 324 YMLVYVDPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 383

Qy 386 FAMLCLLIILGRYPARHKGYFTHEAGDAADADTAIINAEQQNNSEKKEYFI 442
Db 384 FAMLCLLIILGRYPARHKGYFTHEAGDAADADTAIINAEQQNNSEKKEYFI 440
```

RESULT 64
ABO15671

```
ID ABO15671 standard; protein; 440 AA.
XX AC ABO15671;
XX XX
DT 27-AUG-2003 (first entry)
XX DE
XX DE Human secreted/transmembrane protein (PRO) #17.
XX KW Human; secreted and transmembrane protein; PRO; TNF-alpha;
XX KW tumour necrosis factor alpha; chondrocyte cell; tumour; gene therapy;
XX KW tissue typing; adrenal tumour; lung tumour; colon tumour; breast tumour;
XX KW prostate tumour; rectal tumour; cervical tumour; liver tumour.
XX OS Homo sapiens.
XX PN US2003054483-A1.
XX XX
XX PD 20-MAR-2003.
XX XX
XX PF 26-JUL-2002; 2002US-00205907.
XX XX
XX PR 05-JUN-2000; 2000US-0209832P.
XX PR 28-FEB-2001; 2001WO-US006520.
XX PR 15-JAN-2002; 2002US-00052586.
XX XX
XX PA (GETH ) GENENTECH INC.
XX XX
XX PI Baker KP, Chen J, Desnoyers L, Goddard A, Godowski PJ, Gurney AL;
XX PI Pan J, Smith V, Watanabe CK, Wood WI, Zhang Z;
XX XX
XX DR WPI; 2003-479876/45.
XX DR N-PSDB; ACD21185.
XX XX
XX PT Three hundred and five nucleic acids encoding PRO polypeptides, useful
XX PT for the manufacture of a medicament for diagnosing or treating tumor or
XX PT for measuring or detecting expression of an associated gene.
XX PS Claim 11; Fig 34; 699pp; English.
XX XX
XX CC The invention discloses human nucleic acids encoding secreted and
XX CC transmembrane (PRO) polypeptides, with or without their associated signal
XX CC peptide. Also disclosed is an antibody that specifically binds to the PRO
XX CC polypeptide, a method for stimulating the release of tumour necrosis
XX CC factor alpha (TNF-alpha) from human blood by contacting the blood with a
XX CC PRO polypeptide, a method for stimulating the proliferation or
XX CC differentiation of chondrocyte cells by contacting the cells with a PRO
XX CC polypeptide, a method for detecting the presence of a tumour in a mammal
XX CC and an oligonucleotide probe derived from any of the PRO nucleotide
XX CC sequences. The nucleotide sequences are useful as probes, in chromosome
XX CC and gene mapping, in generating antisense RNA and DNA, in preparing PRO
XX CC polypeptides by recombinant techniques and in gene therapy (e.g. for
XX CC replacement of defective gene). The PRO polypeptides are useful as
XX CC molecular weight markers for protein electrophoresis purposes, for
XX CC chromosome identification, as chromosome markers, as therapeutic agents,
XX CC for stimulating the release of TNF-alpha from human blood, for
XX CC stimulating the proliferation or differentiation of chondrocytes and
XX CC detecting the presence, prevention and/or treatment of a tumour, such as
XX CC adrenal, lung, colon, breast, prostate, rectal, cervical or liver tumour.
XX CC The PRO polypeptides and nucleic acids may also be used diagnostically
XX CC for tissue typing. The sequence presented is a PRO polypeptide of the
XX CC invention. Note: The sequence data for this patent can also be obtained
XX CC in electronic format directly from USPTO at
XX CC seqdata.uspto.gov/sequence.html
XX SQ Sequence 440 AA;
```

Query Match 94.3%; Score 417; DB 6; Length 440;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 26 LRLLLLFSAALIPGQNLFTKDVTVIEGEVATISCVNKSDDSVIOLLNPNRTIY 85
Db 24 LRLLLLFSAALIPGQNLFTKDVTVIEGEVATISCVNKSDDSVIOLLNPNRTIY 83

| | | | | | | |
|-----------|---|--|-----|----|--------------|----------------|
| Qy | 86 | FRDRPLKDSRFQLNFSSELKVLNVSISDEGRYFCQLYTDPPQESYTTITVLVPPR | 145 | PR | 10-MAR-1998; | 98US-0077450P. |
| | | | | PR | 11-MAR-1998; | 98US-0077632P. |
| Db | 84 | FRDRPLKDSRFQLNFSSELKVLNVSISDEGRYFCQLYTDPPQESYTTITVLVPPR | 143 | PR | 11-MAR-1998; | 98US-0077649P. |
| | | | | PR | 20-MAR-1998; | 98US-0078866P. |
| Qy | 146 | NLMIDIQDRTAVEGEIEEIVNCTAMASKPATIRWFKGNTELKKGSEVEEWSDMYTVTSQL | 205 | PR | 20-MAR-1998; | 98US-0078939P. |
| | | | | PR | 27-MAR-1998; | 98US-0079664P. |
| Db | 144 | NLMIDIQDRTAVEGEIEEIVNCTAMASKPATIRWFKGNTELKKGSEVEEWSDMYTVTSQL | 203 | PR | 27-MAR-1998; | 98US-0080107P. |
| | | | | PR | 31-MAR-1998; | 98US-0080176P. |
| Qy | 206 | MLKVHKEDDGPVLCQVEHPAVTCNLOTQRYLEYQKPOVHIQMTYPLQGLTREGDALEL | 265 | PR | 31-MAR-1998; | 98US-0080194P. |
| | | | | PR | 01-APR-1998; | 98US-0080327P. |
| Db | 204 | MLKVHKEDDGPVLCQVEHPAVTCNLOTQRYLEYQKPOVHIQMTYPLQGLTREGDALEL | 263 | PR | 01-APR-1998; | 98US-0080333P. |
| | | | | PR | 08-APR-1998; | 98US-0081049P. |
| Qy | 266 | TCEAIGKQPQVMVTVWRVDDMPQHAVLSGPNLFINLNKTDNGTYRCEASNIVGKAHSD | 325 | PR | 08-APR-1998; | 98US-0081070P. |
| | | | | PR | 09-APR-1998; | 98US-0081195P. |
| Db | 264 | TCEAIGKQPQVMVTVWRVDDMPQHAVLSGPNLFINLNKTDNGTYRCEASNIVGKAHSD | 323 | PR | 15-APR-1998; | 98US-0081838P. |
| | | | | PR | 21-APR-1998; | 98US-0082568P. |
| Qy | 326 | YMLVYVDPPTTIPPTTT | 385 | PR | 21-APR-1998; | 98US-0082568P. |
| | | | | PR | 21-APR-1998; | 98US-0082569P. |
| Db | 324 | YMLVYVDPPTTIPPTTT | 383 | PR | 22-APR-1998; | 98US-0082704P. |
| | | | | PR | 22-APR-1998; | 98US-0082797P. |
| Qy | 386 | FAMLCLLIILGRYFARHKGTFTHEAKGADDAADATAIINAEGQNNSEKKEYFI | 442 | PR | 28-APR-1998; | 98US-0083322P. |
| | | | | PR | 28-APR-1998; | 98US-0083322P. |
| Db | 384 | FAMLCLLIILGRYFARHKGTFTHEAKGADDAADATAIINAEGQNNSEKKEYFI | 440 | PR | 29-APR-1998; | 98US-0083495P. |
| | | | | PR | 29-APR-1998; | 98US-0083495P. |
| RESULT 65 | | | | | | |
| ID | ABU55952 standard; protein; 440 AA. | | | | | |
| XX | AC ABU55952; | | | | | |
| XX | XX | | | | | |
| XX | XX | | | | | |
| DT | 26-MAR-2003 (first entry) | | | | | |
| XX | XX | | | | | |
| DE | Human secreted/transmembrane protein, PRO355. | | | | | |
| XX | XX | | | | | |
| KW | Human; secreted protein; transmembrane protein; PRO; antiarthritic; | | | | | |
| KW | vulnerable; tumour necrosis factor-alpha; chondrocyte cell proliferation; | | | | | |
| KW | chondrocyte cell differentiation; tumour; adrenal tumour; lung tumour; | | | | | |
| KW | colon tumour; breast tumour; prostate tumour; rectal tumour; | | | | | |
| KW | cervical tumour; liver tumour; bone disorder; cartilage disorder; | | | | | |
| KW | arthritis; sports injury. | | | | | |
| XX | XX | | | | | |
| OS | Homo sapiens. | | | | | |
| XX | XX | | | | | |
| XX | XX | | | | | |
| PN | US2003022298-A1. | | | | | |
| XX | XX | | | | | |
| PD | 30-JAN-2003. | | | | | |
| XX | XX | | | | | |
| XX | 20-JUN-2002; 2002US-00176913. | | | | | |
| XX | XX | | | | | |
| PR | 18-SEP-1997; 97US-0059263P. | | | | | |
| PR | 18-SEP-1997; 97US-0059266P. | | | | | |
| PR | 17-OCT-1997; 97US-0062250P. | | | | | |
| PR | 21-OCT-1997; 97US-0063486P. | | | | | |
| PR | 24-OCT-1997; 97US-0063120P. | | | | | |
| PR | 28-OCT-1997; 97US-0063121P. | | | | | |
| PR | 28-OCT-1997; 97US-0063540P. | | | | | |
| PR | 28-OCT-1997; 97US-0063541P. | | | | | |
| PR | 28-OCT-1997; 97US-0063544P. | | | | | |
| PR | 29-OCT-1997; 97US-0063564P. | | | | | |
| PR | 31-OCT-1997; 97US-0063734P. | | | | | |
| PR | 31-OCT-1997; 97US-0063870P. | | | | | |
| PR | 05-NOV-1997; 97US-0064103P. | | | | | |
| PR | 13-NOV-1997; 97WO-US020069. | | | | | |
| PR | 21-NOV-1997; 97US-0065311P. | | | | | |
| PR | 24-NOV-1997; 97US-0066120P. | | | | | |
| PR | 24-NOV-1997; 97US-0066466P. | | | | | |
| PR | 24-NOV-1997; 97US-0066772P. | | | | | |
| PR | 11-DEC-1997; 97US-0069335P. | | | | | |
| PR | 12-DEC-1997; 97US-0069425P. | | | | | |
| PR | 17-DEC-1997; 97US-0069870P. | | | | | |
| PR | 18-DEC-1997; 97US-0068017P. | | | | | |

PR 28-OCT-1997; 97US-0063544P. 11-JUN-1998; 98US-008876P.
PR 28-OCT-1997; 97US-0063564P. 12-JUN-1998; 98US-0089090P.
PR 29-OCT-1997; 97US-0063734P. 13-JUN-1998; 98US-0089105P.
PR 31-OCT-1997; 97US-0063870P. 16-JUN-1998; 98US-0089512P.
PR 31-OCT-1997; 97US-0064103P. 16-JUN-1998; 98US-0089514P.
PR 13-NOV-1997; 97US-0065311P. 17-JUN-1998; 98US-0089538P.
PR 24-NOV-1997; 97US-0066120P. 17-JUN-1998; 98US-0089588P.
PR 24-NOV-1997; 97US-0066466P. 17-JUN-1998; 98US-0089653P.
PR 14-DEC-1997; 97US-0066772P. 18-JUN-1998; 98US-0089908P.
PR 12-DEC-1997; 97US-0069435P. 19-JUN-1998; 98US-0089952P.
PR 17-DEC-1997; 97US-0069870P. 22-JUN-1998; 98US-0090246P.
PR 18-DEC-1997; 97US-00698017P. 22-JUN-1998; 98US-0090252P.
PR 10-MAR-1998; 98US-007450P. 24-JUN-1998; 98US-0090254P.
PR 11-MAR-1998; 98US-0077632P. 24-JUN-1998; 98US-0090429P.
PR 11-MAR-1998; 98US-0077649P. 24-JUN-1998; 98US-0090435P.
PR 20-MAR-1998; 98US-0078886P. 24-JUN-1998; 98US-0090444P.
PR 20-MAR-1998; 98US-0078939P. 24-JUN-1998; 98US-0090461P.
PR 27-MAR-1998; 98US-0079664P. 24-JUN-1998; 98US-0090535P.
PR 27-MAR-1998; 98US-0079786P. 24-JUN-1998; 98US-0090540P.
PR 31-MAR-1998; 98US-0080107P. 25-JUN-1998; 98US-0090676P.
PR 31-MAR-1998; 98US-0080194P. 25-JUN-1998; 98US-0090678P.
PR 01-APR-1998; 98US-0080327P. 25-JUN-1998; 98US-0090688P.
PR 01-APR-1998; 98US-0080333P. 25-JUN-1998; 98US-0090690P.
PR 08-APR-1998; 98US-0081049P. 25-JUN-1998; 98US-0090694P.
PR 08-APR-1998; 98US-0081070P. 25-JUN-1998; 98US-0090695P.
PR 09-APR-1998; 98US-0081195P. 25-JUN-1998; 98US-0090696P.
PR 15-APR-1998; 98US-0081838P. 26-JUN-1998; 98US-00105413.
PR 21-APR-1998; 98US-0082568P. 26-JUN-1998; 98US-0090862P.
PR 21-APR-1998; 98US-0082569P. 26-JUN-1998; 98US-0090863P.
PR 22-APR-1998; 98US-0082704P. 26-JUN-1998; 98US-0091010P.
PR 22-APR-1998; 98US-0082797P. 01-JUL-1998; 98US-0091359P.
PR 28-APR-1998; 98US-0083322P. 01-JUL-1998; 98US-0091544P.
PR 28-APR-1998; 98US-0083495P. 02-JUL-1998; 98US-0091478P.
PR 29-APR-1998; 98US-0083496P. 02-JUL-1998; 98US-0091486P.
PR 29-APR-1998; 98US-0083499P. 02-JUL-1998; 98US-0091626P.
PR 29-APR-1998; 98US-0083559P. 02-JUL-1998; 98US-0091628P.
PR 05-MAY-1998; 98US-0084366P. 04-JUL-1998; 98US-0091632P.
PR 06-MAY-1998; 98US-0084414P. 04-JUL-1998; 98US-0094006P.
PR 07-MAY-1998; 98US-0084639P. 10-AUG-1998; 98US-0095282P.
PR 07-MAY-1998; 98US-0084640P. 10-AUG-1998; 98US-0095598P.
PR 07-MAY-1998; 98US-0084643P. 17-AUG-1998; 98US-0096012P.
PR 15-MAY-1998; 98US-0085579P. 17-AUG-1998; 98US-0096757P.
PR 15-MAY-1998; 98US-0085580P. 17-AUG-1998; 98US-0096766P.
PR 15-MAY-1998; 98US-0085582P. 17-AUG-1998; 98US-0096867P.
PR 15-MAY-1998; 98US-0085700P. 17-AUG-1998; 98US-0096891P.
PR 18-MAY-1998; 98US-0086023P. 17-AUG-1998; 98US-0096897P.
PR 22-MAY-1998; 98US-0086392P. 18-AUG-1998; 98US-0096949P.
PR 22-MAY-1998; 98US-0086486P. 18-AUG-1998; 98US-0096959P.
PR 28-MAY-1998; 98US-0087098P. 18-AUG-1998; 98US-0097022P.
PR 28-MAY-1998; 98US-0087208P. 26-AUG-1998; 98US-0097974P.
PR 02-JUN-1998; 98US-0087609P. 26-AUG-1998; 98US-0097954P.
PR 02-JUN-1998; 98US-0087759P. 26-AUG-1998; 98US-0097955P.
PR 03-JUN-1998; 98US-0087827P. 26-AUG-1998; 98US-0097971P.
PR 04-JUN-1998; 98US-0088025P. 26-AUG-1998; 98US-0097974P.
PR 04-JUN-1998; 98US-0088028P. 01-SEP-1998; 98US-0098014P.
PR 04-JUN-1998; 98US-0088029P. 01-SEP-1998; 98US-0098716P.
PR 04-JUN-1998; 98US-0088031P. 02-SEP-1998; 98US-0098723P.
PR 04-JUN-1998; 98US-0088326P. 02-SEP-1998; 98US-0098803P.
PR 05-JUN-1998; 98US-0088167P. 02-SEP-1998; 98US-0098821P.
PR 05-JUN-1998; 98US-0088202P. 02-SEP-1998; 98US-0098843P.
PR 05-JUN-1998; 98US-0088212P. 10-SEP-1998; 98US-0099602P.
PR 05-JUN-1998; 98US-0088217P. 10-SEP-1998; 98US-0099741P.
PR 09-JUN-1998; 98US-0088655P. 10-SEP-1998; 98US-0099754P.
PR 10-JUN-1998; 98US-0088722P. 10-SEP-1998; 98US-0099763P.
PR 10-JUN-1998; 98US-0088738P. 15-SEP-1998; 98US-0099812P.
PR 10-JUN-1998; 98US-0088740P. 16-SEP-1998; 98US-0100388P.
PR 10-JUN-1998; 98US-0088811P. 16-SEP-1998; 98US-0100662P.
PR 10-JUN-1998; 98US-0088824P. 16-SEP-1998; 98US-0100664P.
PR 10-JUN-1998; 98US-0088825P. 16-SEP-1998; 98US-0101751P.
PR 10-JUN-1998; 98US-0088826P. 17-SEP-1998; 98US-0100683P.
PR 11-JUN-1998; 98US-0088861P. 17-SEP-1998; 98US-0100684P.
PR 11-JUN-1998; 98US-0088863P. 17-SEP-1998; 98US-0100919P.

| | | | | | |
|----|--------------|----------------|--|--------------|--|
| PR | 04-JUN-1998; | 98US-0088039P. | PR | 01-SEP-1998; | 98US-0098723P. |
| PR | 04-JUN-1998; | 98US-0088033P. | PR | 02-SEP-1998; | 98US-0098803P. |
| PR | 04-JUN-1998; | 98US-0088326P. | PR | 02-SEP-1998; | 98US-0098821P. |
| PR | 05-JUN-1998; | 98US-0088167P. | PR | 02-SEP-1998; | 98US-0098843P. |
| PR | 05-JUN-1998; | 98US-0088202P. | PR | 09-SEP-1998; | 98US-0098602P. |
| PR | 05-JUN-1998; | 98US-0088212P. | PR | 10-SEP-1998; | 98US-0099741P. |
| PR | 05-JUN-1998; | 98US-0088217P. | PR | 10-SEP-1998; | 98US-0099754P. |
| PR | 09-JUN-1998; | 98US-0088655P. | PR | 10-SEP-1998; | 98US-0099763P. |
| PR | 10-JUN-1998; | 98US-0088722P. | PR | 10-SEP-1998; | 98US-0099812P. |
| PR | 10-JUN-1998; | 98US-0088738P. | PR | 15-SEP-1998; | 98US-0100388P. |
| PR | 10-JUN-1998; | 98US-0088740P. | PR | 16-SEP-1998; | 98US-0100662P. |
| PR | 10-JUN-1998; | 98US-0088811P. | PR | 16-SEP-1998; | 98US-0100664P. |
| PR | 10-JUN-1998; | 98US-0088824P. | PR | 16-SEP-1998; | 98US-0101751P. |
| PR | 10-JUN-1998; | 98US-0088826P. | PR | 16-SEP-1998; | 98US-01019330. |
| PR | 10-JUN-1998; | 98US-0088836P. | PR | 17-SEP-1998; | 98US-0100683P. |
| PR | 11-JUN-1998; | 98US-0088851P. | PR | 17-SEP-1998; | 98US-0100684P. |
| PR | 11-JUN-1998; | 98US-0088863P. | PR | 17-SEP-1998; | 98US-0100919P. |
| PR | 11-JUN-1998; | 98US-0088876P. | PR | 17-SEP-1998; | 98US-0100930P. |
| PR | 12-JUN-1998; | 98US-0089030P. | PR | 18-SEP-1998; | 98US-0100849P. |
| PR | 12-JUN-1998; | 98US-0089105P. | PR | 18-SEP-1998; | 98US-0101014P. |
| PR | 16-JUN-1998; | 98US-0089512P. | PR | 18-SEP-1998; | 98US-0101068P. |
| PR | 16-JUN-1998; | 98US-0089514P. | PR | 23-SEP-1998; | 98US-0101471P. |
| PR | 17-JUN-1998; | 98US-0089538P. | PR | 23-SEP-1998; | 98US-0101472P. |
| PR | 17-JUN-1998; | 98US-0089539P. | PR | 23-SEP-1998; | 98US-0101475P. |
| PR | 17-JUN-1998; | 98US-0089653P. | PR | 23-SEP-1998; | 98US-0101477P. |
| PR | 18-JUN-1998; | 98US-0089908P. | PR | 24-SEP-1998; | 98US-0101738P. |
| PR | 19-JUN-1998; | 98US-0089952P. | PR | 24-SEP-1998; | 98US-0101739P. |
| PR | 22-JUN-1998; | 98US-0090246P. | PR | 24-SEP-1998; | 98US-0101743P. |
| PR | 22-JUN-1998; | 98US-0090252P. | PR | 24-SEP-1998; | 98US-0101922P. |
| PR | 22-JUN-1998; | 98US-0090254P. | PR | 25-SEP-1998; | 98US-0101786P. |
| PR | 24-JUN-1998; | 98US-0090429P. | PR | 25-SEP-1998; | 98US-0102207P. |
| PR | 24-JUN-1998; | 98US-0090435P. | PR | 29-SEP-1998; | 98US-0102240P. |
| PR | 24-JUN-1998; | 98US-0090444P. | PR | 29-SEP-1998; | 98US-0102330P. |
| PR | 24-JUN-1998; | 98US-0090451P. | PR | 29-SEP-1998; | 98US-0102331P. |
| PR | 24-JUN-1998; | 98US-0090535P. | PR | 30-SEP-1998; | 98US-0102487P. |
| PR | 24-JUN-1998; | 98US-0090540P. | PR | 30-SEP-1998; | 98US-0102570P. |
| PR | 25-JUN-1998; | 98US-0090676P. | PR | 30-SEP-1998; | 98US-0102571P. |
| PR | 25-JUN-1998; | 98US-0090678P. | PR | 01-OCT-1998; | 98US-0102684P. |
| PR | 25-JUN-1998; | 98US-0090688P. | PR | 01-OCT-1998; | 98US-0102687P. |
| PR | 25-JUN-1998; | 98US-0090690P. | PR | 02-OCT-1998; | 98US-0102965P. |
| PR | 25-JUN-1998; | 98US-0090694P. | PR | 02-OCT-1998; | 98US-0103258P. |
| PR | 25-JUN-1998; | 98US-0090695P. | PR | 06-OCT-1998; | 98US-0103449P. |
| PR | 25-JUN-1998; | 98US-0090696P. | PR | 07-OCT-1998; | 98US-00168978. |
| PR | 26-JUN-1998; | 98US-0090862P. | Query Match 94.3%; Score 417; DB 6; Length 440; | | |
| PR | 26-JUN-1998; | 98US-0090863P. | Best Local Similarity 100.0%; Pred. No. 0; | | |
| PR | 26-JUN-1998; | 98US-0091010P. | Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0; | | |
| PR | 01-JUL-1998; | 98US-0091359P. | Qy | 26 | LRLLLLFSAALIPITGQGNLFTKDVTVIEGEVATISQVKNKSDSDSVIQLLNPNRQTIY 85 |
| PR | 01-JUL-1998; | 98US-0091544P. | Db | 24 | LRLLLLFSAALIPITGQGNLFTKDVTVIEGEVATISQVKNKSDSDSVIQLLNPNRQTIY 83 |
| PR | 02-JUL-1998; | 98US-0091478P. | Qy | 86 | FRDPRFKDSRFQLLNFSSSELKVSILTNVSIISDEGRYFCOLYTDPPQESYTTITVLVPPR 145 |
| PR | 02-JUL-1998; | 98US-0091486P. | Db | 84 | FRDPRFKDSRFQLLNFSSSELKVSILTNVSIISDEGRYFCOLYTDPPQESYTTITVLVPPR 143 |
| PR | 02-JUL-1998; | 98US-0091626P. | Qy | 146 | NLMIDIQKDTAVEGEEIEVNCTAMASKPATTIRFWKGNTELKKGSEVEEWSDMYTVTSOL 205 |
| PR | 02-JUL-1998; | 98US-0091628P. | Db | 144 | NLMIDIQKDTAVEGEEIEVNCTAMASKPATTIRFWKGNTELKKGSEVEEWSDMYTVTSOL 203 |
| PR | 04-AUG-1998; | 98US-0095282P. | Qy | 206 | MLKVHKEDDGPVICQVEHPAVTGNLQTORYLEVQYKQPQVHIQMTYPLQGLTREGDALEL 265 |
| PR | 10-AUG-1998; | 98US-0095998P. | Db | 204 | MLKVHKEDDGPVICQVEHPAVTGNLQTORYLEVQYKQPQVHIQMTYPLQGLTREGDALEL 263 |
| PR | 17-AUG-1998; | 98US-0096757P. | Qy | 266 | TCEAIGKQPQVMTWVRVDDMPQHAVLSGPNLFINNLKNTDNGTYRCEASNIVGKAHSD 325 |
| PR | 17-AUG-1998; | 98US-0096766P. | Db | 264 | TCEAIGKQPQVMTWVRVDDMPQHAVLSGPNLFINNLKNTDNGTYRCEASNIVGKAHSD 323 |
| PR | 17-AUG-1998; | 98US-0096891P. | Qy | 326 | YMLVYVDPPTTIPPTTTTTTTTTTTTTTTTTTTTTITITDSRAGEEGSIRAVDHAVIGGVAVVV 385 |
| PR | 18-AUG-1998; | 98US-0096949P. | Db | 324 | YMLVYVDPPTTIPPTTTTTTTTTTTTTTTTTTTTTITITDSRAGEEGSIRAVDHAVIGGVAVVV 383 |
| PR | 18-AUG-1998; | 98US-0096959P. | Qy | 386 | FAMLCLLIILGRYFARHKGTFTHEAKGADDAADATATINAEQQNNSEEKEYFI 442 |
| PR | 18-AUG-1998; | 98US-0097022P. | | | |
| PR | 26-AUG-1998; | 98US-0097952P. | | | |
| PR | 26-AUG-1998; | 98US-0097955P. | | | |
| PR | 26-AUG-1998; | 98US-0097971P. | | | |
| PR | 26-AUG-1998; | 98US-0097974P. | | | |
| PR | 26-AUG-1998; | 98US-0098014P. | | | |
| PR | 01-SEP-1998; | 98US-0098716P. | | | |

```
Db          384 FAMLCILLIGRYFARHKGYTFTEAKGADDAADATINAEQQNNSEKKYFI 440
|||||
RESULT 68
ID ABU71128
XX ABU71128 standard; protein; 440 AA.
XX AC ABU71128;
XX XX
XX 10-JUN-2003 (first entry)
XX DE Human PRO355 protein.
XX XX
KW Human; PRO; secreted; transmembrane; cytostatic; TNF-alpha; blood;
KW tumour necrosis factor alpha release; chondrocyte cell; proliferation;
KW differentiation; tumour; gene therapy.
XX XX
OS Homo sapiens.
XX XX
PN US2003036143-A1.
XX XX
PD 20-FEB-2003.
XX XX
PF 02-JUL-2002; 2002US-00187600.
XX XX
PR 18-SEP-1997; 97US-0059263P.
PR 18-SEP-1997; 97US-0059266P.
PR 17-OCT-1997; 97US-0062250P.
PR 21-OCT-1997; 97US-0063486P.
PR 24-OCT-1997; 97US-0063120P.
PR 24-OCT-1997; 97US-0063121P.
PR 28-OCT-1997; 97US-0063540P.
PR 28-OCT-1997; 97US-0063541P.
PR 28-OCT-1997; 97US-0063544P.
PR 28-OCT-1997; 97US-0063564P.
PR 29-OCT-1997; 97US-0063734P.
PR 31-OCT-1997; 97US-0063870P.
PR 31-OCT-1997; 97US-0064103P.
PR 13-NOV-1997; 97US-0065311P.
PR 21-NOV-1997; 97US-0066120P.
PR 24-NOV-1997; 97US-0066466P.
PR 24-NOV-1997; 97US-0066772P.
PR 11-DEC-1997; 97US-0069335P.
PR 12-DEC-1997; 97US-0069425P.
PR 17-DEC-1997; 97US-0069870P.
PR 18-DEC-1997; 97US-0068017P.
PR 10-MAR-1998; 98US-0077450P.
PR 11-MAR-1998; 98US-0077632P.
PR 11-MAR-1998; 98US-0077649P.
PR 20-MAR-1998; 98US-0078886P.
PR 20-MAR-1998; 98US-0078939P.
PR 27-MAR-1998; 98US-0079664P.
PR 27-MAR-1998; 98US-0079786P.
PR 31-MAR-1998; 98US-0080107P.
PR 31-MAR-1998; 98US-0080194P.
PR 01-APR-1998; 98US-0080327P.
PR 01-APR-1998; 98US-0080333P.
PR 08-APR-1998; 98US-0081049P.
PR 08-APR-1998; 98US-0081070P.
PR 09-APR-1998; 98US-0081195P.
PR 15-APR-1998; 98US-0081838P.
PR 21-APR-1998; 98US-0082568P.
PR 21-APR-1998; 98US-0082569P.
PR 22-APR-1998; 98US-0082704P.
PR 22-APR-1998; 98US-0082797P.
PR 28-APR-1998; 98US-0083322P.
PR 29-APR-1998; 98US-0083495P.
PR 29-APR-1998; 98US-0083496P.
PR 29-APR-1998; 98US-0083499P.
PR 29-APR-1998; 98US-0083559P.
PR 05-MAY-1998; 98US-0084366P.
PR 06-MAY-1998; 98US-0084414P.
PR 07-MAY-1998; 98US-0084639P.
PR 07-MAY-1998; 98US-0084640P.
PR 07-MAY-1998; 98US-0084643P.
PR 15-MAY-1998; 98US-0085579P.
PR 15-MAY-1998; 98US-0085580P.
PR 15-MAY-1998; 98US-0085582P.
PR 15-MAY-1998; 98US-0085700P.
PR 18-MAY-1998; 98US-0086023P.
PR 22-MAY-1998; 98US-0086392P.
PR 22-MAY-1998; 98US-0086486P.
PR 28-MAY-1998; 98US-0087098P.
PR 28-MAY-1998; 98US-0087208P.
PR 02-JUN-1998; 98US-0087609P.
PR 02-JUN-1998; 98US-0087759P.
PR 03-JUN-1998; 98US-0087827P.
PR 04-JUN-1998; 98US-0088025P.
PR 04-JUN-1998; 98US-0088028P.
PR 04-JUN-1998; 98US-0088029P.
PR 04-JUN-1998; 98US-0088033P.
PR 04-JUN-1998; 98US-0088326P.
PR 05-JUN-1998; 98US-0088167P.
PR 05-JUN-1998; 98US-0088202P.
PR 05-JUN-1998; 98US-0088212P.
PR 05-JUN-1998; 98US-0088217P.
PR 09-JUN-1998; 98US-0088555P.
PR 10-JUN-1998; 98US-0088722P.
PR 10-JUN-1998; 98US-0088738P.
PR 10-JUN-1998; 98US-0088740P.
PR 10-JUN-1998; 98US-0088811P.
PR 10-JUN-1998; 98US-0088824P.
PR 10-JUN-1998; 98US-0088825P.
PR 10-JUN-1998; 98US-0088826P.
PR 11-JUN-1998; 98US-0088861P.
PR 11-JUN-1998; 98US-0088863P.
PR 11-JUN-1998; 98US-0088876P.
PR 12-JUN-1998; 98US-0089090P.
PR 12-JUN-1998; 98US-0089105P.
PR 16-JUN-1998; 98US-0089512P.
PR 16-JUN-1998; 98US-0089514P.
PR 17-JUN-1998; 98US-0089538P.
PR 17-JUN-1998; 98US-0089598P.
PR 17-JUN-1998; 98US-0089653P.
PR 18-JUN-1998; 98US-0089908P.
PR 19-JUN-1998; 98US-0089952P.
PR 22-JUN-1998; 98US-0090246P.
PR 22-JUN-1998; 98US-0090252P.
PR 24-JUN-1998; 98US-0090254P.
PR 24-JUN-1998; 98US-0090429P.
PR 24-JUN-1998; 98US-0090435P.
PR 24-JUN-1998; 98US-0090444P.
PR 24-JUN-1998; 98US-0090461P.
PR 24-JUN-1998; 98US-0090535P.
PR 24-JUN-1998; 98US-0090540P.
PR 25-JUN-1998; 98US-0090676P.
PR 25-JUN-1998; 98US-0090678P.
PR 25-JUN-1998; 98US-0090688P.
PR 25-JUN-1998; 98US-0090690P.
PR 25-JUN-1998; 98US-0090694P.
PR 25-JUN-1998; 98US-0090695P.
PR 25-JUN-1998; 98US-0090696P.
PR 25-JUN-1998; 98US-0090841P.
PR 26-JUN-1998; 98US-0090862P.
PR 26-JUN-1998; 98US-0090863P.
PR 26-JUN-1998; 98US-0091010P.
PR 01-JUL-1998; 98US-0091359P.
PR 01-JUL-1998; 98US-0091544P.
PR 02-JUL-1998; 98US-0091478P.
PR 02-JUL-1998; 98US-0091486P.
PR 02-JUL-1998; 98US-0091626P.
PR 02-JUL-1998; 98US-0091628P.
PR 02-JUL-1998; 98US-0091632P.
PR 04-AUG-1998; 98US-0095282P.
```

| | | | | | | | | | | | | | | |
|-----------|--|----------|--------|--------|--------|------|----|------|-------|-------|-------|------|-----|-----|
| QY | 146 | NLMIDIQD | TAVEGE | BEIEVN | CTAMAS | KPAT | TI | RWFK | GNTEL | KGKSE | VEEWS | DMYT | VSQ | 205 |
| DB | 144 | NLMIDIQD | TAVEGE | BEIEVN | CTAMAS | KPAT | TI | RWFK | GNTEL | KGKSE | VEEWS | DMYT | VSQ | 203 |
| QY | 206 | MLKVHKED | DGVP | IVICOV | EHPA | VTGN | I | Q | TORY | LEVQ | YK | QVHI | Q | 265 |
| DB | 204 | MLKVHKED | DGVP | IVICOV | EHPA | VTGN | I | Q | TORY | LEVQ | YK | QVHI | Q | 263 |
| QY | 266 | TCEAIGK | POP | VW | VTW | VRV | DD | EM | PO | HAV | L | SG | PN | 325 |
| DB | 264 | TCEAIGK | POP | VW | VTW | VRV | DD | EM | PO | HAV | L | SG | PN | 323 |
| QY | 326 | YMLVY | DP | PT | T | IP | P | T | T | T | T | T | T | 385 |
| DB | 324 | YMLVY | DP | PT | T | IP | P | T | T | T | T | T | T | 383 |
| QY | 386 | FAMLC | LLI | I | L | G | R | Y | F | A | R | H | K | 442 |
| DB | 384 | FAMLC | LLI | I | L | G | R | Y | F | A | R | H | K | 440 |
| RESULT 69 | | | | | | | | | | | | | | |
| ABO07738 | | | | | | | | | | | | | | |
| ID | ABO07738 standard; protein; 440 AA. | | | | | | | | | | | | | |
| XX | ABO07738; | | | | | | | | | | | | | |
| XX | AC | | | | | | | | | | | | | |
| XX | ABO07738; | | | | | | | | | | | | | |
| DT | 18-AUG-2003 (first entry) | | | | | | | | | | | | | |
| XX | Human PRO polypeptide #17. | | | | | | | | | | | | | |
| XX | Human; PRO; secreted polypeptide; transmembrane polypeptide; cytosstatic; tumour necrosis factor-alpha; TNF-alpha; blood; tumour; chondrocyte cell; cancer; adrenal; lung; colon; breast; prostate; rectum; cervix; liver. | | | | | | | | | | | | | |
| OS | Homo sapiens. | | | | | | | | | | | | | |
| XX | US2003032130-A1. | | | | | | | | | | | | | |
| XX | 13-FEB-2003. | | | | | | | | | | | | | |
| XX | 28-JUN-2002; 2002US-00184635. | | | | | | | | | | | | | |
| XX | 18-SEP-1997; 97US-0059263P. | | | | | | | | | | | | | |
| PR | 18-SEP-1997; 97US-0059266P. | | | | | | | | | | | | | |
| PR | 17-OCT-1997; 97US-0062250P. | | | | | | | | | | | | | |
| PR | 21-OCT-1997; 97US-0063486P. | | | | | | | | | | | | | |
| PR | 24-OCT-1997; 97US-0063120P. | | | | | | | | | | | | | |
| PR | 24-OCT-1997; 97US-0063121P. | | | | | | | | | | | | | |
| PR | 28-OCT-1997; 97US-0063540P. | | | | | | | | | | | | | |
| PR | 28-OCT-1997; 97US-0063541P. | | | | | | | | | | | | | |
| PR | 28-OCT-1997; 97US-0063544P. | | | | | | | | | | | | | |
| PR | 28-OCT-1997; 97US-0063564P. | | | | | | | | | | | | | |
| PR | 29-OCT-1997; 97US-0063734P. | | | | | | | | | | | | | |
| PR | 31-OCT-1997; 97US-0063870P. | | | | | | | | | | | | | |
| PR | 31-OCT-1997; 97US-0064103P. | | | | | | | | | | | | | |
| PR | 13-NOV-1997; 97US-0065311P. | | | | | | | | | | | | | |
| PR | 21-NOV-1997; 97US-0066120P. | | | | | | | | | | | | | |
| PR | 24-NOV-1997; 97US-0066646P. | | | | | | | | | | | | | |
| PR | 24-NOV-1997; 97US-0066772P. | | | | | | | | | | | | | |
| PR | 11-DEC-1997; 97US-0069335P. | | | | | | | | | | | | | |
| PR | 12-DEC-1997; 97US-0069425P. | | | | | | | | | | | | | |
| PR | 17-DEC-1997; 97US-0069870P. | | | | | | | | | | | | | |
| PR | 18-DEC-1997; 97US-0068017P. | | | | | | | | | | | | | |
| PR | 10-MAR-1998; 98US-0077450P. | | | | | | | | | | | | | |
| PR | 11-MAR-1998; 98US-0077632P. | | | | | | | | | | | | | |
| PR | 20-MAR-1998; 98US-0077649P. | | | | | | | | | | | | | |
| PR | 20-MAR-1998; 98US-0078886P. | | | | | | | | | | | | | |
| PR | 20-MAR-1998; 98US-0078939P. | | | | | | | | | | | | | |
| PR | 27-MAR-1998; 98US-0079664P. | | | | | | | | | | | | | |
| PR | 27-MAR-1998; 98US-0079786P. | | | | | | | | | | | | | |
| PR | 31-MAR-1998; 98US-0080107P. | | | | | | | | | | | | | |
| PR | 31-MAR-1998; 98US-0080194P. | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | |
|--|----|-----------|----------|--------|--------|---------|--------|---------|-------|-------|---------|----|-----|--|
| Query Match | | | | | | | | | | | | | | |
| Best Local Similarity 94.3%; Score 417; DB 6; Length 440; | | | | | | | | | | | | | | |
| Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0; | | | | | | | | | | | | | | |
| QY | 26 | LRLLLLLFS | AAALPTGD | QNLFTK | QVTVIE | GEVATIS | CQWNK | SDSDSVI | QLLNP | RQTIY | 85 | | | |
| DB | 24 | LRLLLLLFS | AAALPTGD | QNLFTK | QVTVIE | GEVATIS | CQWNK | SDSDSVI | QLLNP | RQTIY | 83 | | | |
| QY | 86 | FRDPR | PLKDSR | FOLN | FSSEL | KVSLTN | VSISDE | GRYFC | OLYTD | PPQES | YTTITVL | VP | 145 | |
| DB | 84 | FRDPR | PLKDSR | FOLN | FSSEL | KVSLTN | VSISDE | GRYFC | OLYTD | PPQES | YTTITVL | VP | 143 | |

PR 01-APR-1998; 98US-0080327P.
PR 01-APR-1998; 98US-0080333P.
PR 08-APR-1998; 98US-0081049P.
PR 08-APR-1998; 98US-0081070P.
PR 09-APR-1998; 98US-0081195P.
PR 15-APR-1998; 98US-0081838P.
PR 21-APR-1998; 98US-0082568P.
PR 21-APR-1998; 98US-0082569P.
PR 22-APR-1998; 98US-0082704P.
PR 22-APR-1998; 98US-0082797P.
PR 28-APR-1998; 98US-0083322P.
PR 29-APR-1998; 98US-0083495P.
PR 29-APR-1998; 98US-0083496P.
PR 29-APR-1998; 98US-0083499P.
PR 29-APR-1998; 98US-0083559P.
PR 05-MAY-1998; 98US-0084366P.
PR 06-MAY-1998; 98US-0084414P.
PR 07-MAY-1998; 98US-0084639P.
PR 07-MAY-1998; 98US-0084640P.
PR 07-MAY-1998; 98US-0084643P.
PR 15-MAY-1998; 98US-0085579P.
PR 15-MAY-1998; 98US-0085580P.
PR 15-MAY-1998; 98US-0085582P.
PR 15-MAY-1998; 98US-0085700P.
PR 18-MAY-1998; 98US-0086023P.
PR 22-MAY-1998; 98US-0086332P.
PR 22-MAY-1998; 98US-0086486P.
PR 28-MAY-1998; 98US-0087098P.
PR 28-MAY-1998; 98US-0087208P.
PR 02-JUN-1998; 98US-0087609P.
PR 02-JUN-1998; 98US-0087759P.
PR 03-JUN-1998; 98US-0087827P.
PR 04-JUN-1998; 98US-0088025P.
PR 04-JUN-1998; 98US-0088028P.
PR 04-JUN-1998; 98US-0088029P.
PR 04-JUN-1998; 98US-0088033P.
PR 04-JUN-1998; 98US-0088326P.
PR 05-JUN-1998; 98US-0088167P.
PR 05-JUN-1998; 98US-0088202P.
PR 05-JUN-1998; 98US-0088212P.
PR 05-JUN-1998; 98US-0088217P.
PR 09-JUN-1998; 98US-0088655P.
PR 10-JUN-1998; 98US-0088722P.
PR 10-JUN-1998; 98US-0088738P.
PR 10-JUN-1998; 98US-0088740P.
PR 10-JUN-1998; 98US-0088811P.
PR 10-JUN-1998; 98US-0088824P.
PR 10-JUN-1998; 98US-0088825P.
PR 10-JUN-1998; 98US-0088826P.
PR 11-JUN-1998; 98US-0088861P.
PR 11-JUN-1998; 98US-0088863P.
PR 11-JUN-1998; 98US-0088876P.
PR 12-JUN-1998; 98US-0089090P.
PR 12-JUN-1998; 98US-0089105P.
PR 16-JUN-1998; 98US-0089512P.
PR 16-JUN-1998; 98US-0089514P.
PR 17-JUN-1998; 98US-0089538P.
PR 17-JUN-1998; 98US-0089598P.
PR 17-JUN-1998; 98US-0089653P.
PR 18-JUN-1998; 98US-0089908P.
PR 19-JUN-1998; 98US-0089952P.
PR 22-JUN-1998; 98US-0090246P.
PR 22-JUN-1998; 98US-0090252P.
PR 22-JUN-1998; 98US-0090254P.
PR 24-JUN-1998; 98US-0090429P.
PR 24-JUN-1998; 98US-0090435P.
PR 24-JUN-1998; 98US-0090444P.
PR 24-JUN-1998; 98US-0090461P.
PR 24-JUN-1998; 98US-0090535P.
PR 24-JUN-1998; 98US-0090540P.
PR 25-JUN-1998; 98US-0090676P.
PR 25-JUN-1998; 98US-0090678P.
PR 25-JUN-1998; 98US-0090688P.
PR 25-JUN-1998; 98US-0090690P.
PR 25-JUN-1998; 98US-0090694P.
PR 25-JUN-1998; 98US-0090695P.
PR 25-JUN-1998; 98US-0090696P.
PR 26-JUN-1998; 98US-00105413.
PR 26-JUN-1998; 98US-0090862P.
PR 26-JUN-1998; 98US-0090863P.
PR 26-JUN-1998; 98US-0091010P.
PR 01-JUL-1998; 98US-0091135P.
PR 01-JUL-1998; 98US-0091154P.
PR 02-JUL-1998; 98US-0091478P.
PR 02-JUL-1998; 98US-0091486P.
PR 02-JUL-1998; 98US-0091626P.
PR 02-JUL-1998; 98US-0091628P.
PR 02-JUL-1998; 98US-0091632P.
PR 02-JUL-1998; 98US-0094006P.
PR 04-AUG-1998; 98US-0095282P.
PR 10-AUG-1998; 98US-0095998P.
PR 10-AUG-1998; 98US-0096012P.
PR 17-AUG-1998; 98US-0096757P.
PR 17-AUG-1998; 98US-0096766P.
PR 17-AUG-1998; 98US-0096867P.
PR 17-AUG-1998; 98US-0096891P.
PR 17-AUG-1998; 98US-0096897P.
PR 18-AUG-1998; 98US-0096949P.
PR 18-AUG-1998; 98US-0096959P.
PR 18-AUG-1998; 98US-0097022P.
PR 26-AUG-1998; 98US-0097952P.
PR 26-AUG-1998; 98US-0097954P.
PR 26-AUG-1998; 98US-0097955P.
PR 26-AUG-1998; 98US-0097971P.
PR 26-AUG-1998; 98US-0097974P.
PR 26-AUG-1998; 98US-0098014P.
PR 01-SEP-1998; 98US-0098716P.
PR 01-SEP-1998; 98US-0098723P.
PR 02-SEP-1998; 98US-0098803P.
PR 02-SEP-1998; 98US-0098821P.
PR 02-SEP-1998; 98US-0098843P.
PR 02-SEP-1998; 98US-0099602P.
PR 10-SEP-1998; 98US-0099741P.
PR 10-SEP-1998; 98US-0099754P.
PR 10-SEP-1998; 98US-0099763P.
PR 13-SEP-1998; 98US-0100388P.
PR 16-SEP-1998; 98US-0100662P.
PR 16-SEP-1998; 98US-0100664P.
PR 16-SEP-1998; 98US-0101751P.
PR 16-SEP-1998; 98WO-US019330.
PR 17-SEP-1998; 98US-0100683P.
PR 17-SEP-1998; 98US-0100684P.
PR 17-SEP-1998; 98US-0100919P.
PR 17-SEP-1998; 98US-0100930P.
PR 18-SEP-1998; 98US-0100849P.
PR 18-SEP-1998; 98US-0101014P.
PR 18-SEP-1998; 98US-0101068P.
PR 23-SEP-1998; 98US-0101471P.
PR 23-SEP-1998; 98US-0101472P.
PR 23-SEP-1998; 98US-0101475P.
PR 23-SEP-1998; 98US-0101477P.
PR 24-SEP-1998; 98US-0101738P.
PR 24-SEP-1998; 98US-0101739P.
PR 24-SEP-1998; 98US-0101743P.
PR 24-SEP-1998; 98US-0101922P.
PR 25-SEP-1998; 98US-0101786P.
PR 25-SEP-1998; 98US-0102207P.
PR 29-SEP-1998; 98US-0102240P.
PR 29-SEP-1998; 98US-0102330P.
PR 29-SEP-1998; 98US-0102331P.
PR 30-SEP-1998; 98US-0102487P.
PR 30-SEP-1998; 98US-0102570P.
PR 30-SEP-1998; 98US-0102571P.
PR 01-OCT-1998; 98US-0102684P.
PR 01-OCT-1998; 98US-0102687P.

| | | | | | |
|----|--------------|-----------------|--|--------------|-----------------|
| PR | 04-JUN-1998; | 98US-00880288P. | PR | 01-SEP-1998; | 98US-0098716P. |
| PR | 04-JUN-1998; | 98US-0088029P. | PR | 01-SEP-1998; | 98US-0098723P. |
| PR | 04-JUN-1998; | 98US-0088033P. | PR | 02-SEP-1998; | 98US-0098803P. |
| PR | 04-JUN-1998; | 98US-00883326P. | PR | 02-SEP-1998; | 98US-0098821P. |
| PR | 05-JUN-1998; | 98US-0088157P. | PR | 02-SEP-1998; | 98US-0098843P. |
| PR | 05-JUN-1998; | 98US-0088202P. | PR | 03-SEP-1998; | 98US-0098602P. |
| PR | 05-JUN-1998; | 98US-0088212P. | PR | 10-SEP-1998; | 98US-0099741P. |
| PR | 05-JUN-1998; | 98US-0088217P. | PR | 10-SEP-1998; | 98US-0099754P. |
| PR | 09-JUN-1998; | 98US-0088655P. | PR | 10-SEP-1998; | 98US-0099763P. |
| PR | 10-JUN-1998; | 98US-0088723P. | PR | 10-SEP-1998; | 98US-0099812P. |
| PR | 10-JUN-1998; | 98US-0088718P. | PR | 15-SEP-1998; | 98US-0100388P. |
| PR | 10-JUN-1998; | 98US-0088740P. | PR | 16-SEP-1998; | 98US-0100662P. |
| PR | 10-JUN-1998; | 98US-0088811P. | PR | 16-SEP-1998; | 98US-0100664P. |
| PR | 10-JUN-1998; | 98US-0088824P. | PR | 16-SEP-1998; | 98US-0101751P. |
| PR | 10-JUN-1998; | 98US-0088825P. | PR | 16-SEP-1998; | 98WO-US019130. |
| PR | 10-JUN-1998; | 98US-0088826P. | PR | 17-SEP-1998; | 98US-0100683P. |
| PR | 11-JUN-1998; | 98US-0088861P. | PR | 17-SEP-1998; | 98US-0100684P. |
| PR | 11-JUN-1998; | 98US-0088863P. | PR | 17-SEP-1998; | 98US-0100919P. |
| PR | 11-JUN-1998; | 98US-0088876P. | PR | 17-SEP-1998; | 98US-0100930P. |
| PR | 12-JUN-1998; | 98US-0089080P. | PR | 18-SEP-1998; | 98US-0100849P. |
| PR | 12-JUN-1998; | 98US-0089105P. | PR | 18-SEP-1998; | 98US-0101014P. |
| PR | 16-JUN-1998; | 98US-0089512P. | PR | 18-SEP-1998; | 98US-0101068P. |
| PR | 16-JUN-1998; | 98US-0089514P. | PR | 23-SEP-1998; | 98US-0101471P. |
| PR | 17-JUN-1998; | 98US-0089538P. | PR | 23-SEP-1998; | 98US-0101472P. |
| PR | 17-JUN-1998; | 98US-0089552P. | PR | 23-SEP-1998; | 98US-0101475P. |
| PR | 17-JUN-1998; | 98US-0089653P. | PR | 23-SEP-1998; | 98US-0101477P. |
| PR | 18-JUN-1998; | 98US-0089908P. | PR | 24-SEP-1998; | 98US-0101738P. |
| PR | 19-JUN-1998; | 98US-0089952P. | PR | 24-SEP-1998; | 98US-0101739P. |
| PR | 22-JUN-1998; | 98US-0090246P. | PR | 24-SEP-1998; | 98US-0101743P. |
| PR | 22-JUN-1998; | 98US-0090252P. | PR | 24-SEP-1998; | 98US-0101922P. |
| PR | 22-JUN-1998; | 98US-0090254P. | PR | 25-SEP-1998; | 98US-0101786P. |
| PR | 24-JUN-1998; | 98US-0090435P. | PR | 25-SEP-1998; | 98US-0102207P. |
| PR | 24-JUN-1998; | 98US-0090444P. | PR | 29-SEP-1998; | 98US-0102240P. |
| PR | 24-JUN-1998; | 98US-0090451P. | PR | 29-SEP-1998; | 98US-0102330P. |
| PR | 24-JUN-1998; | 98US-0090535P. | PR | 29-SEP-1998; | 98US-0102331P. |
| PR | 24-JUN-1998; | 98US-0090695P. | PR | 30-SEP-1998; | 98US-0102487P. |
| PR | 25-JUN-1998; | 98US-0090676P. | PR | 30-SEP-1998; | 98US-0102570P. |
| PR | 25-JUN-1998; | 98US-0090678P. | PR | 30-SEP-1998; | 98US-0102571P. |
| PR | 25-JUN-1998; | 98US-0090688P. | PR | 01-OCT-1998; | 98US-0102684P. |
| PR | 25-JUN-1998; | 98US-0090690P. | PR | 01-OCT-1998; | 98US-0102687P. |
| PR | 25-JUN-1998; | 98US-0090694P. | Query Match 94.3%; Score 417; DB 6; Length 440; | | |
| PR | 25-JUN-1998; | 98US-0090695P. | Best Local Similarity 100.0%; Pred. No. 0; | | |
| PR | 25-JUN-1998; | 98US-0090696P. | Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0; | | |
| PR | 26-JUN-1998; | 98US-00105413. | Qy | 26 | LRLLLLFSAAALPTG |
| PR | 26-JUN-1998; | 98US-0090862P. | Db | 24 | LRLLLLFSAAALPTG |
| PR | 26-JUN-1998; | 98US-0090863P. | Qy | 86 | FRDPRPKDSRFQ |
| PR | 26-JUN-1998; | 98US-0091010P. | Db | 84 | FRDPRPKDSRFQ |
| PR | 01-JUL-1998; | 98US-0091544P. | Qy | 146 | NLMIDIKOTAVE |
| PR | 02-JUL-1998; | 98US-0091478P. | Db | 144 | NLMIDIKOTAVE |
| PR | 02-JUL-1998; | 98US-0091486P. | Qy | 206 | MLKVHKEDGCV |
| PR | 02-JUL-1998; | 98US-0091626P. | Db | 204 | MLKVHKEDGCV |
| PR | 02-JUL-1998; | 98US-0091628P. | Qy | 266 | TCEAIGKQPQV |
| PR | 02-JUL-1998; | 98US-0091632P. | Db | 264 | TCEAIGKQPQV |
| PR | 04-AUG-1998; | 98US-0094006P. | Qy | 326 | YMLVYDPPPT |
| PR | 04-AUG-1998; | 98US-0095282P. | Db | 324 | YMLVYDPPPT |
| PR | 10-AUG-1998; | 98US-0095998P. | Qy | 386 | FAMLCLLIILG |
| PR | 10-AUG-1998; | 98US-0096012P. | Db | 384 | FAMLCLLIILG |
| PR | 17-AUG-1998; | 98US-0096757P. | Qy | 326 | YMLVYDPPPT |
| PR | 17-AUG-1998; | 98US-0096766P. | Db | 324 | YMLVYDPPPT |
| PR | 17-AUG-1998; | 98US-0096867P. | Qy | 386 | FAMLCLLIILG |
| PR | 17-AUG-1998; | 98US-0096891P. | Db | 384 | FAMLCLLIILG |
| PR | 18-AUG-1998; | 98US-0096897P. | Qy | 326 | YMLVYDPPPT |
| PR | 18-AUG-1998; | 98US-0096949P. | Db | 324 | YMLVYDPPPT |
| PR | 18-AUG-1998; | 98US-0096959P. | Qy | 386 | FAMLCLLIILG |
| PR | 18-AUG-1998; | 98US-0097022P. | Db | 384 | FAMLCLLIILG |
| PR | 26-AUG-1998; | 98US-0097952P. | Qy | 326 | YMLVYDPPPT |
| PR | 26-AUG-1998; | 98US-0097954P. | Db | 324 | YMLVYDPPPT |
| PR | 26-AUG-1998; | 98US-0097955P. | Qy | 386 | FAMLCLLIILG |
| PR | 26-AUG-1998; | 98US-0097971P. | Db | 384 | FAMLCLLIILG |
| PR | 26-AUG-1998; | 98US-0097974P. | Qy | 326 | YMLVYDPPPT |
| PR | 26-AUG-1998; | 98US-0098014P. | Db | 324 | YMLVYDPPPT |

RESULT 72
AB001453
ID AB001453 standard; protein; 440 AA.
XX AC AB001453;
XX DT 07-AUG-2003 (first entry)
XX DE Human PRO polypeptide #17.
XX KW Human; PRO; tumour; cytostatic; cancer; secreted protein; lung;
KW transmembrane protein; tumour necrosis factor alpha; TNF-alpha; adrenal;
KW chondrocyte cell; colon; breast; prostate; rectum; cervix; liver.
XX OS Homo sapiens.
XX PN US2003008353-A1.
XX PD 09-JAN-2003.
XX PF 21-JUN-2002; 2002US-00176758.
XX PR 18-SEP-1997; 97US-0059263P.
XX PR 18-SEP-1997; 97US-0059266P.
XX PR 17-OCT-1997; 97US-062250P.
XX PR 21-OCT-1997; 97US-063486P.
XX PR 24-OCT-1997; 97US-063120P.
XX PR 24-OCT-1997; 97US-063121P.
XX PR 28-OCT-1997; 97US-063540P.
XX PR 28-OCT-1997; 97US-063541P.
XX PR 28-OCT-1997; 97US-063544P.
XX PR 28-OCT-1997; 97US-063564P.
XX PR 28-OCT-1997; 97US-063734P.
XX PR 31-OCT-1997; 97US-063870P.
XX PR 31-OCT-1997; 97US-064103P.
XX PR 13-NOV-1997; 97US-065311P.
XX PR 21-NOV-1997; 97US-0666120P.
XX PR 21-NOV-1997; 97US-0666466P.
XX PR 24-NOV-1997; 97US-066772P.
XX PR 11-DEC-1997; 97US-0669335P.
XX PR 12-DEC-1997; 97US-0669425P.
XX PR 17-DEC-1997; 97US-0669870P.
XX PR 18-DEC-1997; 97US-0668017P.
XX PR 10-MAR-1998; 98US-0077450P.
XX PR 11-MAR-1998; 98US-0077632P.
XX PR 11-MAR-1998; 98US-0077649P.
XX PR 20-MAR-1998; 98US-0078886P.
XX PR 20-MAR-1998; 98US-0078939P.
XX PR 27-MAR-1998; 98US-0079664P.
XX PR 27-MAR-1998; 98US-0079786P.
XX PR 31-MAR-1998; 98US-0080107P.
XX PR 31-MAR-1998; 98US-0080194P.
XX PR 01-APR-1998; 98US-0080327P.
XX PR 01-APR-1998; 98US-0080333P.
XX PR 08-APR-1998; 98US-0081049P.
XX PR 08-APR-1998; 98US-0081070P.
XX PR 09-APR-1998; 98US-0081195P.
XX PR 15-APR-1998; 98US-0081838P.
XX PR 21-APR-1998; 98US-0082568P.
XX PR 21-APR-1998; 98US-0082569P.
XX PR 22-APR-1998; 98US-0082704P.
XX PR 22-APR-1998; 98US-0083279P.
XX PR 28-APR-1998; 98US-0083322P.
XX PR 29-APR-1998; 98US-0083495P.
XX PR 29-APR-1998; 98US-0083436P.
XX PR 29-APR-1998; 98US-0083499P.
XX PR 29-APR-1998; 98US-0083559P.
XX PR 05-MAY-1998; 98US-0084366P.
XX PR 06-MAY-1998; 98US-0084414P.
XX PR 07-MAY-1998; 98US-0084639P.
XX PR 07-MAY-1998; 98US-0084640P.
XX PR 16-SEP-1998; 98WO-US019330.

PR 07-OCT-1998; 98WO-US021141.
PR 01-DEC-1998; 98WO-US025108.
PR 08-MAR-1999; 99WO-US005028.
PR 14-MAY-1999; 99WO-US010733.
PR 02-JUN-1999; 99WO-US012252.
PR 01-SEP-1999; 99WO-US020111.
PR 15-SEP-1999; 99WO-US021090.
PR 01-DEC-1999; 99WO-US028301.
PR 02-DEC-1999; 99WO-US028551.
PR 30-DEC-1999; 99WO-US031274.
PR 05-JAN-2000; 2000WO-US000219.
PR 18-FEB-2000; 2000WO-US004341.
PR 18-FEB-2000; 2000WO-US004342.
PR 24-FEB-2000; 2000WO-US004414.
PR 24-FEB-2000; 2000WO-US005004.
PR 01-MAR-2000; 2000WO-US005601.
PR 02-MAR-2000; 2000WO-US005841.
PR 15-MAR-2000; 2000WO-US006884.
PR 30-MAR-2000; 2000WO-US008439.
PR 17-MAY-2000; 2000WO-US013705.
PR 22-MAY-2000; 2000WO-US014042.
PR 30-MAY-2000; 2000WO-US014941.
PR 02-JUN-2000; 2000WO-US015264.
PR 28-JUL-2000; 2000WO-US020710.
PR 24-AUG-2000; 2000WO-US023328.
PR 08-NOV-2000; 2000WO-US030952.
PR 01-DEC-2000; 2000WO-US032678.
PR 20-DEC-2000; 2000WO-US034956.
PR 28-FEB-2001; 2001WO-US006520.
PR 01-JUN-2001; 2001WO-US017800.
PR 20-JUN-2001; 2001WO-US019692.
PR 23-JUN-2001; 2001WO-US021066.
PR 09-JUL-2001; 2001WO-US021735.
PR 29-AUG-2001; 2001WO-US027099.
PR 15-JAN-2002; 2002US-00052586.

(GETH) GENENTECH INC.

Baker KP, Chen J, Desnoyers L, Goddard A, Godowski PJ, Gurney AL;
Pan J, Smith V, Watanabe CK, Wood WI, Zhang Z;

WPI; 2003-341328/32.
N-PSDB; ACD06949.

Three hundred and five nucleic acids encoding secreted and transmembrane polypeptides, designated as PRO, useful for detecting the presence of, or treating tumor, e.g. adrenal, lung, colon, breast, prostate, rectal, cervical or liver tumor.

Claim 11; Fig 34; 707pp; English.

The invention relates to human PRO polypeptides (secreted and transmembrane polypeptides) and the polynucleotides encoding them. The invention also relates to an antibody that specifically binds to a PRO polypeptide, a method for stimulating the release of tumour necrosis factor alpha (TNF-alpha) from human blood by contacting the blood with a PRO polypeptide and a method for stimulating the proliferation or differentiation of chondrocyte cells by contacting the cells with a PRO polypeptide. The polypeptides and polynucleotides are useful for detecting the presence of a tumour, such as an adrenal, lung, colon, breast, prostate, rectal, cervical or liver tumour, and for treating such tumours. The polynucleotides are useful as hybridisation probes, in chromosome and gene mapping and in generating antisense RNA or DNA. The polypeptides are useful as pharmaceuticals, diagnostics, biosensors or bioreactors. Both are useful in tissue typing. Sequences AB001437-AB001741 represent human PRO polypeptides of the invention. Note: The sequence data for this patent is also available in electronic format from USPTO at seqdata.uspto.gov/sequence.html

SQ Sequence 440 AA;

Query Match 94.3%; Score 417; DB 6; Length 440;
Best Local Similarity 100.0%; Pred. No. 0;

| Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0; | |
|--|---|
| Qy 26 | LRLLLLFSAAALPTGDGQNLFTKDVTVIEGEVATISCOVNSKSDSDSVIQLLNPNRQTIY 85 |
| Db 24 | LRLLLLFSAAALPTGDGQNLFTKDVTVIEGEVATISCOVNSKSDSDSVIQLLNPNRQTIY 83 |
| Qy 86 | FRDPRPLKDSRFOLLNPFSSSELKVSLLNVSISDEGRYFCOLYTDPPQESYTTITVLVPPR 145 |
| Db 84 | FRDPRPLKDSRFOLLNPFSSSELKVSLLNVSISDEGRYFCOLYTDPPQESYTTITVLVPPR 143 |
| Qy 146 | NLMIDIQDQTAVERGEELVNVCTAMASKPATIRWFKNGTELKKGSEVEEWSDMYVTSOL 205 |
| Db 144 | NLMIDIQDQTAVERGEELVNVCTAMASKPATIRWFKNGTELKKGSEVEEWSDMYVTSOL 203 |
| Qy 206 | MLKVHKEDDGPVVICQVEHPAVTGNLQRYLEVQYKPOVHIQMTYPLQGLTREGDALEL 265 |
| Db 204 | MLKVHKEDDGPVVICQVEHPAVTGNLQRYLEVQYKPOVHIQMTYPLQGLTREGDALEL 263 |
| Qy 266 | TCBAIGKQPQVMVTVWRVDDMPQHAVLSGPNLFINNLTNDNGTYRCEASNIVGKAHSD 325 |
| Db 264 | TCBAIGKQPQVMVTVWRVDDMPQHAVLSGPNLFINNLTNDNGTYRCEASNIVGKAHSD 323 |
| Qy 326 | YMLYVYDPPPTIIPPTTT 385 |
| Db 324 | YMLYVYDPPPTIIPPTTT 383 |
| Qy 386 | FAMLCLLIILGRFARHKGYFTHEAKGADDAADATTAIINAEQQNNSEKKEYFI 442 |
| Db 384 | FAMLCLLIILGRFARHKGYFTHEAKGADDAADATTAIINAEQQNNSEKKEYFI 440 |
| RESULT 73 | |
| ABU81255 | |
| ID | ABU81255 standard; protein; 440 AA. |
| AC | ABU81255; |
| XX | |
| DT | 24-JUN-2003 (first entry) |
| XX | |
| DE | Human PRO polypeptide #17. |
| XX | |
| KW | Human; PRO; tumour necrosis factor-alpha; TNF-alpha; blood; |
| KW | chondrocyte cell; tumour; adrenal; kidney; lung; colon; breast; prostate; |
| KW | rectum; cervix; liver; cytostatic. |
| XX | |
| OS | Homo sapiens. |
| XX | |
| PN | US2003017542-A1. |
| XX | |
| PD | 23-JAN-2003. |
| XX | |
| PF | 20-JUN-2002; 2002US-00176749. |
| XX | |
| PR | 18-SEP-1997; 97US-0059263P. |
| PR | 18-SEP-1997; 97US-0059266P. |
| PR | 17-OCT-1997; 97US-0062250P. |
| PR | 21-OCT-1997; 97US-0063486P. |
| PR | 24-OCT-1997; 97US-0063120P. |
| PR | 24-OCT-1997; 97US-0063121P. |
| PR | 28-OCT-1997; 97US-0063540P. |
| PR | 28-OCT-1997; 97US-0063541P. |
| PR | 28-OCT-1997; 97US-0063544P. |
| PR | 28-OCT-1997; 97US-0063564P. |
| PR | 29-OCT-1997; 97US-0063734P. |
| PR | 31-OCT-1997; 97US-0063870P. |
| PR | 31-OCT-1997; 97US-0064103P. |
| PR | 13-NOV-1997; 97US-0065311P. |
| PR | 21-NOV-1997; 97US-0066120P. |
| PR | 24-NOV-1997; 97US-0066466P. |
| PR | 24-NOV-1997; 97US-0066772P. |
| PR | 11-DEC-1997; 97US-0069335P. |
| PR | 12-DEC-1997; 97US-0069425P. |
| PR | 17-DEC-1997; 97US-0069870P. |
| PR | |
| PR | 18-DEC-1997; 97US-0068017P. |
| PR | 10-MAR-1998; 98US-0077450P. |
| PR | 11-MAR-1998; 98US-0077632P. |
| PR | 11-MAR-1998; 98US-0077649P. |
| PR | 20-MAR-1998; 98US-0078866P. |
| PR | 20-MAR-1998; 98US-0078939P. |
| PR | 27-MAR-1998; 98US-0079664P. |
| PR | 27-MAR-1998; 98US-0079786P. |
| PR | 31-MAR-1998; 98US-0080107P. |
| PR | 31-MAR-1998; 98US-0080194P. |
| PR | 01-APR-1998; 98US-0080327P. |
| PR | 01-APR-1998; 98US-0080333P. |
| PR | 08-APR-1998; 98US-0081049P. |
| PR | 08-APR-1998; 98US-0081070P. |
| PR | 09-APR-1998; 98US-0081195P. |
| PR | 15-APR-1998; 98US-0081838P. |
| PR | 21-APR-1998; 98US-0082568P. |
| PR | 21-APR-1998; 98US-0082569P. |
| PR | 22-APR-1998; 98US-0082704P. |
| PR | 22-APR-1998; 98US-0082797P. |
| PR | 28-APR-1998; 98US-0083322P. |
| PR | 28-APR-1998; 98US-0083495P. |
| PR | 29-APR-1998; 98US-0083496P. |
| PR | 29-APR-1998; 98US-0083499P. |
| PR | 29-APR-1998; 98US-0083559P. |
| PR | 06-MAY-1998; 98US-0084366P. |
| PR | 06-MAY-1998; 98US-0084414P. |
| PR | 07-MAY-1998; 98US-0084639P. |
| PR | 07-MAY-1998; 98US-0084640P. |
| PR | 07-MAY-1998; 98US-0084643P. |
| PR | 15-MAY-1998; 98US-0085579P. |
| PR | 15-MAY-1998; 98US-0085580P. |
| PR | 15-MAY-1998; 98US-0085582P. |
| PR | 15-MAY-1998; 98US-0085700P. |
| PR | 18-MAY-1998; 98US-0086023P. |
| PR | 22-MAY-1998; 98US-0086392P. |
| PR | 22-MAY-1998; 98US-0086486P. |
| PR | 28-MAY-1998; 98US-0087098P. |
| PR | 28-MAY-1998; 98US-0087208P. |
| PR | 02-JUN-1998; 98US-0087609P. |
| PR | 02-JUN-1998; 98US-0087759P. |
| PR | 03-JUN-1998; 98US-0087827P. |
| PR | 04-JUN-1998; 98US-0088025P. |
| PR | 04-JUN-1998; 98US-0088028P. |
| PR | 04-JUN-1998; 98US-0088029P. |
| PR | 04-JUN-1998; 98US-0088033P. |
| PR | 04-JUN-1998; 98US-0088326P. |
| PR | 05-JUN-1998; 98US-0088167P. |
| PR | 05-JUN-1998; 98US-0088202P. |
| PR | 05-JUN-1998; 98US-0088212P. |
| PR | 09-JUN-1998; 98US-0088217P. |
| PR | 09-JUN-1998; 98US-0088559P. |
| PR | 10-JUN-1998; 98US-0088722P. |
| PR | 10-JUN-1998; 98US-0088738P. |
| PR | 10-JUN-1998; 98US-0088740P. |
| PR | 10-JUN-1998; 98US-0088811P. |
| PR | 10-JUN-1998; 98US-0088824P. |
| PR | 10-JUN-1998; 98US-0088825P. |
| PR | 10-JUN-1998; 98US-0088826P. |
| PR | 11-JUN-1998; 98US-0088861P. |
| PR | 11-JUN-1998; 98US-0088863P. |
| PR | 12-JUN-1998; 98US-0088876P. |
| PR | 12-JUN-1998; 98US-0089090P. |
| PR | 12-JUN-1998; 98US-0089105P. |
| PR | 16-JUN-1998; 98US-0089512P. |
| PR | 16-JUN-1998; 98US-0089514P. |
| PR | 17-JUN-1998; 98US-0089538P. |
| PR | 17-JUN-1998; 98US-0089598P. |
| PR | 17-JUN-1998; 98US-0089653P. |
| PR | 18-JUN-1998; 98US-0089908P. |
| PR | 19-JUN-1998; 98US-0089952P. |
| PR | 22-JUN-1998; 98US-0090246P. |
| PR | 22-JUN-1998; 98US-0090252P. |

XX 18-SEP-1997; 97US-0059263P.
PR 18-SEP-1997; 97US-0059266P.
PR 17-OCT-1997; 97US-0062250P.
PR 21-OCT-1997; 97US-0063486P.
PR 24-OCT-1997; 97US-0063120P.
PR 24-OCT-1997; 97US-0063121P.
PR 28-OCT-1997; 97US-0063540P.
PR 28-OCT-1997; 97US-0063541P.
PR 28-OCT-1997; 97US-0063544P.
PR 28-OCT-1997; 97US-0063564P.
PR 29-OCT-1997; 97US-0063734P.
PR 31-OCT-1997; 97US-0063870P.
PR 31-OCT-1997; 97US-0064103P.
PR 13-NOV-1997; 97US-0065311P.
PR 21-NOV-1997; 97US-0066120P.
PR 24-NOV-1997; 97US-0066466P.
PR 24-NOV-1997; 97US-0066772P.
PR 11-DEC-1997; 97US-0069335P.
PR 12-DEC-1997; 97US-0069425P.
PR 17-DEC-1997; 97US-0069870P.
PR 18-DEC-1997; 97US-0068017P.
PR 10-MAR-1998; 98US-0077450P.
PR 11-MAR-1998; 98US-0077632P.
PR 11-MAR-1998; 98US-0077649P.
PR 20-MAR-1998; 98US-0078886P.
PR 20-MAR-1998; 98US-0078939P.
PR 27-MAR-1998; 98US-0079664P.
PR 27-MAR-1998; 98US-0079786P.
PR 31-MAR-1998; 98US-0080107P.
PR 31-MAR-1998; 98US-0080194P.
PR 01-APR-1998; 98US-0080327P.
PR 01-APR-1998; 98US-0080333P.
PR 08-APR-1998; 98US-0081049P.
PR 08-APR-1998; 98US-0081070P.
PR 09-APR-1998; 98US-0081195P.
PR 15-APR-1998; 98US-0081838P.
PR 21-APR-1998; 98US-0082568P.
PR 21-APR-1998; 98US-0082569P.
PR 22-APR-1998; 98US-0082704P.
PR 22-APR-1998; 98US-0082737P.
PR 28-APR-1998; 98US-0083322P.
PR 29-APR-1998; 98US-0083495P.
PR 29-APR-1998; 98US-0083496P.
PR 29-APR-1998; 98US-0083499P.
PR 29-APR-1998; 98US-0083559P.
PR 05-MAY-1998; 98US-0083666P.
PR 06-MAY-1998; 98US-0084414P.
PR 07-MAY-1998; 98US-0084639P.
PR 07-MAY-1998; 98US-0084640P.
PR 15-MAY-1998; 98US-0085579P.
PR 15-MAY-1998; 98US-0085580P.
PR 15-MAY-1998; 98US-0085582P.
PR 15-MAY-1998; 98US-0085700P.
PR 18-MAY-1998; 98US-0086023P.
PR 22-MAY-1998; 98US-0086392P.
PR 22-MAY-1998; 98US-0086486P.
PR 28-MAY-1998; 98US-0087098P.
PR 28-MAY-1998; 98US-0087208P.
PR 02-JUN-1998; 98US-0087609P.
PR 02-JUN-1998; 98US-0087759P.
PR 03-JUN-1998; 98US-0087827P.
PR 04-JUN-1998; 98US-0088025P.
PR 04-JUN-1998; 98US-0088028P.
PR 04-JUN-1998; 98US-0088029P.
PR 04-JUN-1998; 98US-0088033P.
PR 05-JUN-1998; 98US-0088167P.
PR 05-JUN-1998; 98US-0088202P.
PR 05-JUN-1998; 98US-0088212P.
PR 05-JUN-1998; 98US-0088217P.
PR 09-JUN-1998; 98US-0088217P.
PR 09-JUN-1998; 98US-0088655P.

PR 10-JUN-1998; 98US-0088722P.
PR 10-JUN-1998; 98US-0088738P.
PR 10-JUN-1998; 98US-0088740P.
PR 10-JUN-1998; 98US-0088811P.
PR 10-JUN-1998; 98US-0088824P.
PR 10-JUN-1998; 98US-0088825P.
PR 11-JUN-1998; 98US-0088826P.
PR 11-JUN-1998; 98US-0088861P.
PR 11-JUN-1998; 98US-0088863P.
PR 11-JUN-1998; 98US-0088876P.
PR 12-JUN-1998; 98US-0089090P.
PR 12-JUN-1998; 98US-0089105P.
PR 16-JUN-1998; 98US-0089512P.
PR 16-JUN-1998; 98US-0089514P.
PR 17-JUN-1998; 98US-0089538P.
PR 17-JUN-1998; 98US-0089598P.
PR 17-JUN-1998; 98US-0089653P.
PR 17-JUN-1998; 98US-0089908P.
PR 18-JUN-1998; 98US-0089908P.
PR 21-JUN-1998; 98US-0090246P.
PR 22-JUN-1998; 98US-0090252P.
PR 22-JUN-1998; 98US-0090254P.
PR 24-JUN-1998; 98US-0090429P.
PR 24-JUN-1998; 98US-0090435P.
PR 24-JUN-1998; 98US-0090444P.
PR 24-JUN-1998; 98US-0090461P.
PR 24-JUN-1998; 98US-0090535P.
PR 24-JUN-1998; 98US-0090540P.
PR 25-JUN-1998; 98US-0090676P.
PR 25-JUN-1998; 98US-0090678P.
PR 25-JUN-1998; 98US-0090688P.
PR 25-JUN-1998; 98US-0090690P.
PR 25-JUN-1998; 98US-0090694P.
PR 25-JUN-1998; 98US-0090895P.
PR 25-JUN-1998; 98US-0090896P.
PR 26-JUN-1998; 98US-00105413.
PR 26-JUN-1998; 98US-0090862P.
PR 26-JUN-1998; 98US-0090863P.
PR 26-JUN-1998; 98US-0091010P.
PR 01-JUL-1998; 98US-0091359P.
PR 01-JUL-1998; 98US-0091544P.
PR 02-JUL-1998; 98US-0091478P.
PR 02-JUL-1998; 98US-0091486P.
PR 02-JUL-1998; 98US-0091626P.
PR 02-JUL-1998; 98US-0091628P.
PR 02-JUL-1998; 98US-0091632P.
PR 24-JUL-1998; 98US-0094006P.
PR 04-AUG-1998; 98US-0095282P.
PR 10-AUG-1998; 98US-0095998P.
PR 10-AUG-1998; 98US-0096012P.
PR 17-AUG-1998; 98US-0096757P.
PR 17-AUG-1998; 98US-0096766P.
PR 17-AUG-1998; 98US-0096867P.
PR 17-AUG-1998; 98US-0096891P.
PR 17-AUG-1998; 98US-0096897P.
PR 18-AUG-1998; 98US-0096949P.
PR 18-AUG-1998; 98US-0096959P.
PR 18-AUG-1998; 98US-0097022P.
PR 26-AUG-1998; 98US-0097952P.
PR 26-AUG-1998; 98US-0097954P.
PR 26-AUG-1998; 98US-0097955P.
PR 26-AUG-1998; 98US-0097971P.
PR 26-AUG-1998; 98US-0097974P.
PR 26-AUG-1998; 98US-0098014P.
PR 01-SEP-1998; 98US-0098716P.
PR 01-SEP-1998; 98US-0098723P.
PR 02-SEP-1998; 98US-0098803P.
PR 02-SEP-1998; 98US-0098821P.
PR 02-SEP-1998; 98US-0098843P.
PR 03-SEP-1998; 98US-0099602P.
PR 10-SEP-1998; 98US-0099741P.
PR 10-SEP-1998; 98US-0099754P.
PR 10-SEP-1998; 98US-0099763P.

```
PR 10-SEP-1998; 98US-0059812P.
PR 15-SEP-1998; 98US-0100388P.
PR 16-SEP-1998; 98US-0100662P.
PR 16-SEP-1998; 98US-0100664P.
PR 16-SEP-1998; 98US-0101751P.
PR 16-SEP-1998; 98WO-US019330.
PR 17-SEP-1998; 98US-0100683P.
PR 17-SEP-1998; 98US-0100684P.
PR 17-SEP-1998; 98US-0100919P.
PR 17-SEP-1998; 98US-0100930P.
PR 18-SEP-1998; 98US-0100849P.
PR 18-SEP-1998; 98US-0101014P.
PR 18-SEP-1998; 98US-0101068P.
PR 23-SEP-1998; 98US-0101471P.
PR 23-SEP-1998; 98US-0101472P.
PR 23-SEP-1998; 98US-0101475P.
PR 23-SEP-1998; 98US-0101477P.
PR 24-SEP-1998; 98US-0101738P.
PR 24-SEP-1998; 98US-0101739P.
PR 24-SEP-1998; 98US-0101743P.
PR 25-SEP-1998; 98US-0101922P.
PR 29-SEP-1998; 98US-0101786P.
PR 29-SEP-1998; 98US-0102207P.
PR 29-SEP-1998; 98US-0102240P.
PR 29-SEP-1998; 98US-0102330P.
PR 29-SEP-1998; 98US-0102331P.
PR 30-SEP-1998; 98US-0102487P.
PR 30-SEP-1998; 98US-0102570P.
PR 30-SEP-1998; 98US-0102571P.
PR 01-OCT-1998; 98US-0102684P.
PR 01-OCT-1998; 98US-0102687P.

Query Match          94.3%; Score 417; DB 6; Length 440;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 26 LRLLLILFSAALHPTGQQNLFTKDVTVIEGEVATISCVQNKSDSDSVIQLLNPRTIY 85
Db 24 LRLLLILFSAALHPTGQQNLFTKDVTVIEGEVATISCVQNKSDSDSVIQLLNPRTIY 83
Qy 86 FRDPRPLKDSRFQNLNFSSELKVLNVSISDGRYFCOLYTDPPQESYTTITVLVPPR 145
Db 84 FRDPRPLKDSRFQNLNFSSELKVLNVSISDGRYFCOLYTDPPQESYTTITVLVPPR 143
Qy 146 NLMDIQKDTAVEGEEIEVNCTAMASKPATTIRNFKGNTELKKGSEVEESDMYVTSQL 205
Db 144 NLMDIQKDTAVEGEEIEVNCTAMASKPATTIRNFKGNTELKKGSEVEESDMYVTSQL 203
Qy 206 MLKVHKEDDGPVTCQVEHPAVTGNLQRYLEVQYKQVHIQMTYPLQGLTREGDALEL 265
Db 204 MLKVHKEDDGPVTCQVEHPAVTGNLQRYLEVQYKQVHIQMTYPLQGLTREGDALEL 263
Qy 266 TCEAIGKQPQVMVTWRVDDMPQHAVLSGNLFINLNKTDNGTYRCEASNIVGKAHSD 325
Db 264 TCEAIGKQPQVMVTWRVDDMPQHAVLSGNLFINLNKTDNGTYRCEASNIVGKAHSD 323
Qy 326 YMLVYDPPPTIIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 385
Db 324 YMLVYDPPPTIIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 383
Qy 386 FAMILCLLIILGRYFARHKGTFTTEAKGADDAADATTAIINAEQQNNSEKKEYFI 442
Db 384 FAMILCLLIILGRYFARHKGTFTTEAKGADDAADATTAIINAEQQNNSEKKEYFI 440

RESULT 75
ID ABR67787 standard; protein; 440 AA.
AC ABR67787;
DT 11-AUG-2003 (first entry)
XX
```

DE Human secreted polypeptide PRO355, SEQ ID NO:34.
XX Human; PRO; secreted protein; transmembrane protein;
KW extracellular domain; tumour necrosis factor-alpha; TNF-alpha;
KW chondrocyte; proliferation; differentiation; cartilage disorder;
KW bone disorder; arthritis; sports injury; cancer; tumour; diagnosis;
KW adrenal tumour; lung; colon; breast; prostate; kidney; rectum; cervix;
KW liver; drug screening; transgenic animal; genetic analysis;
KW antiarthritic; vulnerary; gene therapy.

XX Homo sapiens.

OS US2003027269-A1.

XX 06-FEB-2003.

XX 19-JUN-2002; 2002US-00175743.

XX 18-SEP-1997; 97US-0059263P.

XX 18-SEP-1997; 97US-0059266P.

XX 21-OCT-1997; 97US-0062250P.

XX 24-OCT-1997; 97US-0063120P.

XX 24-OCT-1997; 97US-0063121P.

XX 28-OCT-1997; 97US-0063540P.

XX 28-OCT-1997; 97US-0063541P.

XX 28-OCT-1997; 97US-0063544P.

XX 28-OCT-1997; 97US-0063564P.

XX 31-OCT-1997; 97US-0063734P.

XX 31-OCT-1997; 97US-0063870P.

XX 31-OCT-1997; 97US-0064103P.

XX 13-NOV-1997; 97US-0065311P.

XX 21-NOV-1997; 97US-0066120P.

XX 24-NOV-1997; 97US-0066466P.

XX 11-DEC-1997; 97US-0066772P.

XX 12-DEC-1997; 97US-0069335P.

XX 17-DEC-1997; 97US-0069425P.

XX 18-DEC-1997; 97US-0069870P.

XX 10-MAR-1998; 98US-0077450P.

XX 11-MAR-1998; 98US-0077632P.

XX 11-MAR-1998; 98US-0077649P.

XX 20-MAR-1998; 98US-0078886P.

XX 20-MAR-1998; 98US-0078939P.

XX 27-MAR-1998; 98US-0079664P.

XX 31-MAR-1998; 98US-0079786P.

XX 31-MAR-1998; 98US-0080107P.

XX 31-MAR-1998; 98US-0080194P.

XX 01-APR-1998; 98US-0080327P.

XX 01-APR-1998; 98US-0080333P.

XX 08-APR-1998; 98US-0081049P.

XX 09-APR-1998; 98US-0081195P.

XX 15-APR-1998; 98US-0081838P.

XX 21-APR-1998; 98US-0082568P.

XX 21-APR-1998; 98US-0082569P.

XX 22-APR-1998; 98US-0082704P.

XX 22-APR-1998; 98US-0082797P.

XX 28-APR-1998; 98US-0083322P.

XX 29-APR-1998; 98US-0083495P.

XX 29-APR-1998; 98US-0083496P.

XX 29-APR-1998; 98US-0083499P.

XX 29-APR-1998; 98US-0083559P.

XX 05-MAY-1998; 98US-0084366P.

XX 06-MAY-1998; 98US-0084414P.

XX 07-MAY-1998; 98US-0084639P.

XX 07-MAY-1998; 98US-0084640P.

XX 07-MAY-1998; 98US-0084643P.

XX 15-MAY-1998; 98US-0085579P.

XX 15-MAY-1998; 98US-0085580P.

XX 15-MAY-1998; 98US-0085582P.

XX 15-MAY-1998; 98US-0085700P.

XX 18-MAY-1998; 98US-0086023P.

Search completed: June 28, 2005, 10:16:44
Job time : 130.57 secs

THIS PAGE BLANK (USPTO)

GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.

OM protein - protein search, using sw model

Run on: June 28, 2005, 10:20:39 ; Search time 107.306 Seconds
(without alignments)

1583.971 Million cell updates/sec

Title: US-10-622-237-2

Perfect score: 442

Sequence: 1 MASVLPSSGSCAAAAA.....AIIAEGGQNNSEKEYFI 442

Scoring table:

Gapop 60.0 , Gapext 60.0

Searched: 1717557 seqs, 384547976 residues

Word size : 0

Total number of hits satisfying chosen parameters: 1717557

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 150 summaries

Database : Published Applications AA:*

1: /cgn2_6/ptodata/2/pubpaa/US07_PUBCOMB.pep.*

2: /cgn2_6/ptodata/2/pubpaa/PCT_NEW_PUB.pep.*

3: /cgn2_6/ptodata/2/pubpaa/US06_NEW_PUB.pep.*

4: /cgn2_6/ptodata/2/pubpaa/US06_PUBCOMB.pep.*

5: /cgn2_6/ptodata/2/pubpaa/US07_NEW_PUB.pep.*

6: /cgn2_6/ptodata/2/pubpaa/PCTUS_PUBCOMB.pep.*

7: /cgn2_6/ptodata/2/pubpaa/US08_NEW_PUB.pep.*

8: /cgn2_6/ptodata/2/pubpaa/US08_PUBCOMB.pep.*

9: /cgn2_6/ptodata/2/pubpaa/US09A_PUBCOMB.pep.*

10: /cgn2_6/ptodata/2/pubpaa/US09B_PUBCOMB.pep.*

11: /cgn2_6/ptodata/2/pubpaa/US09C_PUBCOMB.pep.*

12: /cgn2_6/ptodata/2/pubpaa/US09_NEW_PUB.pep.*

13: /cgn2_6/ptodata/2/pubpaa/US10A_PUBCOMB.pep.*

14: /cgn2_6/ptodata/2/pubpaa/US10B_PUBCOMB.pep.*

15: /cgn2_6/ptodata/2/pubpaa/US10C_PUBCOMB.pep.*

16: /cgn2_6/ptodata/2/pubpaa/US10D_PUBCOMB.pep.*

17: /cgn2_6/ptodata/2/pubpaa/US10E_PUBCOMB.pep.*

18: /cgn2_6/ptodata/2/pubpaa/US10_NEW_PUB.pep.*

19: /cgn2_6/ptodata/2/pubpaa/US11A_PUBCOMB.pep.*

20: /cgn2_6/ptodata/2/pubpaa/US11_NEW_PUB.pep.*

21: /cgn2_6/ptodata/2/pubpaa/US60_NEW_PUB.pep.*

22: /cgn2_6/ptodata/2/pubpaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | DB ID | Description |
|------------|-------|-------------|--------|-------|--------------------|
| 1 | 442 | 100.0 | 442 | 9 | US-09-778-510-20 |
| 2 | 442 | 100.0 | 442 | 9 | US-09-778-187B-2 |
| 3 | 442 | 100.0 | 442 | 10 | US-09-984-130-136 |
| 4 | 442 | 100.0 | 442 | 10 | US-09-836-353A-136 |
| 5 | 442 | 100.0 | 442 | 14 | US-10-302-041-20 |
| 6 | 442 | 100.0 | 442 | 14 | US-10-403-107-1 |
| 7 | 442 | 100.0 | 442 | 15 | US-10-015-115-111 |
| 8 | 442 | 100.0 | 442 | 15 | US-10-363-616-262 |
| 9 | 442 | 100.0 | 442 | 16 | US-10-622-237-2 |
| 10 | 442 | 100.0 | 442 | 17 | US-10-898-408-2 |
| 11 | 417 | 94.3 | 440 | 9 | US-09-866-028-61 |

| | | | | | | |
|----|-----|------|-----|----|-------------------|-------------------|
| 12 | 417 | 94.3 | 440 | 9 | US-09-944-449-61 | Sequence 61, Appl |
| 13 | 417 | 94.3 | 440 | 9 | US-09-944-457-61 | Sequence 61, Appl |
| 14 | 417 | 94.3 | 440 | 9 | US-09-944-862-61 | Sequence 61, Appl |
| 15 | 417 | 94.3 | 440 | 9 | US-09-945-587-61 | Sequence 61, Appl |
| 16 | 417 | 94.3 | 440 | 9 | US-09-945-015-61 | Sequence 61, Appl |
| 17 | 417 | 94.3 | 440 | 9 | US-09-944-396-61 | Sequence 61, Appl |
| 18 | 417 | 94.3 | 440 | 9 | US-09-944-432-61 | Sequence 61, Appl |
| 19 | 417 | 94.3 | 440 | 9 | US-09-943-762-61 | Sequence 61, Appl |
| 20 | 417 | 94.3 | 440 | 9 | US-09-944-654-61 | Sequence 61, Appl |
| 21 | 417 | 94.3 | 440 | 9 | US-09-943-851A-61 | Sequence 61, Appl |
| 22 | 417 | 94.3 | 440 | 9 | US-09-944-413-61 | Sequence 61, Appl |
| 23 | 417 | 94.3 | 440 | 9 | US-09-944-403-61 | Sequence 61, Appl |
| 24 | 417 | 94.3 | 440 | 9 | US-09-944-896-61 | Sequence 61, Appl |
| 25 | 417 | 94.3 | 440 | 9 | US-09-944-344-61 | Sequence 61, Appl |
| 26 | 417 | 94.3 | 440 | 9 | US-09-944-529-61 | Sequence 61, Appl |
| 27 | 417 | 94.3 | 440 | 9 | US-09-944-907-61 | Sequence 61, Appl |
| 28 | 417 | 94.3 | 440 | 10 | US-09-944-884-61 | Sequence 61, Appl |
| 29 | 417 | 94.3 | 440 | 10 | US-09-944-852-61 | Sequence 61, Appl |
| 30 | 417 | 94.3 | 440 | 10 | US-09-943-780-61 | Sequence 61, Appl |
| 31 | 417 | 94.3 | 440 | 10 | US-09-945-584-61 | Sequence 61, Appl |
| 32 | 417 | 94.3 | 440 | 11 | US-09-943-664-61 | Sequence 61, Appl |
| 33 | 417 | 94.3 | 440 | 13 | US-10-052-586-34 | Sequence 34, Appl |
| 34 | 417 | 94.3 | 440 | 14 | US-10-174-590-34 | Sequence 34, Appl |
| 35 | 417 | 94.3 | 440 | 14 | US-10-176-758-34 | Sequence 34, Appl |
| 36 | 417 | 94.3 | 440 | 14 | US-10-175-737-34 | Sequence 34, Appl |
| 37 | 417 | 94.3 | 440 | 14 | US-10-174-581-34 | Sequence 34, Appl |
| 38 | 417 | 94.3 | 440 | 14 | US-10-176-483-34 | Sequence 34, Appl |
| 39 | 417 | 94.3 | 440 | 14 | US-10-176-749-34 | Sequence 34, Appl |
| 40 | 417 | 94.3 | 440 | 14 | US-10-176-914-34 | Sequence 34, Appl |
| 41 | 417 | 94.3 | 440 | 14 | US-10-176-915-34 | Sequence 34, Appl |
| 42 | 417 | 94.3 | 440 | 14 | US-10-173-706-34 | Sequence 34, Appl |
| 43 | 417 | 94.3 | 440 | 14 | US-10-175-738-34 | Sequence 34, Appl |
| 44 | 417 | 94.3 | 440 | 14 | US-10-175-752-34 | Sequence 34, Appl |
| 45 | 417 | 94.3 | 440 | 14 | US-10-176-482-34 | Sequence 34, Appl |
| 46 | 417 | 94.3 | 440 | 14 | US-10-176-757-34 | Sequence 34, Appl |
| 47 | 417 | 94.3 | 440 | 14 | US-10-176-913-34 | Sequence 34, Appl |
| 48 | 417 | 94.3 | 440 | 14 | US-10-180-552-34 | Sequence 34, Appl |
| 49 | 417 | 94.3 | 440 | 14 | US-10-180-553-34 | Sequence 34, Appl |
| 50 | 417 | 94.3 | 440 | 14 | US-10-173-700-34 | Sequence 34, Appl |
| 51 | 417 | 94.3 | 440 | 14 | US-10-174-572-34 | Sequence 34, Appl |
| 52 | 417 | 94.3 | 440 | 14 | US-10-174-579-34 | Sequence 34, Appl |
| 53 | 417 | 94.3 | 440 | 14 | US-10-174-582-34 | Sequence 34, Appl |
| 54 | 417 | 94.3 | 440 | 14 | US-10-174-588-34 | Sequence 34, Appl |
| 55 | 417 | 94.3 | 440 | 14 | US-10-175-739-34 | Sequence 34, Appl |
| 56 | 417 | 94.3 | 440 | 14 | US-10-175-743-34 | Sequence 34, Appl |
| 57 | 417 | 94.3 | 440 | 14 | US-10-173-695-34 | Sequence 34, Appl |
| 58 | 417 | 94.3 | 440 | 14 | US-10-176-488-34 | Sequence 34, Appl |
| 59 | 417 | 94.3 | 440 | 14 | US-10-176-492-34 | Sequence 34, Appl |
| 60 | 417 | 94.3 | 440 | 14 | US-10-176-747-34 | Sequence 34, Appl |
| 61 | 417 | 94.3 | 440 | 14 | US-10-176-750-34 | Sequence 34, Appl |
| 62 | 417 | 94.3 | 440 | 14 | US-10-176-985-34 | Sequence 34, Appl |
| 63 | 417 | 94.3 | 440 | 14 | US-10-176-987-34 | Sequence 34, Appl |
| 64 | 417 | 94.3 | 440 | 14 | US-10-176-993-34 | Sequence 34, Appl |
| 65 | 417 | 94.3 | 440 | 14 | US-10-176-993-34 | Sequence 34, Appl |
| 66 | 417 | 94.3 | 440 | 14 | US-10-184-658-34 | Sequence 34, Appl |
| 67 | 417 | 94.3 | 440 | 14 | US-10-176-991-34 | Sequence 34, Appl |
| 68 | 417 | 94.3 | 440 | 14 | US-10-173-697-34 | Sequence 34, Appl |
| 69 | 417 | 94.3 | 440 | 14 | US-10-173-705-34 | Sequence 34, Appl |
| 70 | 417 | 94.3 | 440 | 14 | US-10-174-576-34 | Sequence 34, Appl |
| 71 | 417 | 94.3 | 440 | 14 | US-10-174-585-34 | Sequence 34, Appl |
| 72 | 417 | 94.3 | 440 | 14 | US-10-174-586-34 | Sequence 34, Appl |
| 73 | 417 | 94.3 | 440 | 14 | US-10-175-747-34 | Sequence 34, Appl |
| 74 | 417 | 94.3 | 440 | 14 | US-10-176-481-34 | Sequence 34, Appl |
| 75 | 417 | 94.3 | 440 | 14 | US-10-176-485-34 | Sequence 34, Appl |
| 76 | 417 | 94.3 | 440 | 14 | US-10-176-487-34 | Sequence 34, Appl |
| 77 | 417 | 94.3 | 440 | 14 | US-10-176-493-34 | Sequence 34, Appl |
| 78 | 417 | 94.3 | 440 | 14 | US-10-176-756-34 | Sequence 34, Appl |
| 79 | 417 | 94.3 | 440 | 14 | US-10-176-911-34 | Sequence 34, Appl |
| 80 | 417 | 94.3 | 440 | 14 | US-10-176-919-34 | Sequence 34, Appl |
| 81 | 417 | 94.3 | 440 | 14 | US-10-176-925-34 | Sequence 34, Appl |
| 82 | 417 | 94.3 | 440 | 14 | US-10-176-978-34 | Sequence 34, Appl |
| 83 | 417 | 94.3 | 440 | 14 | US-10-179-510-34 | Sequence 34, Appl |
| 84 | 417 | 94.3 | 440 | 14 | US-10-179-510-34 | Sequence 34, Appl |


```
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 2
; LENGTH: 442
; TYPE: PRT
; ORGANISM: homo sapiens
US-09-778-187B-2

Query Match
Best Local Similarity 100.0%; Score 442; DB 9; Length 442;
Matches 442; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MASVLPSSGSCAAAAAAPPGLRLRLRLLLLSAALIPDGGQNLFTKDVTVIEGEVA 60
Db 1 MASVLPSSGSCAAAAAAPPGLRLRLRLLLLSAALIPDGGQNLFTKDVTVIEGEVA 60

Qy 61 TISCQVNSDSDSVIQLLNPQRQTIYFRDPLKDSRFQLNFSSELKVSILTNVISDEG 120
Db 61 TISCQVNSDSDSVIQLLNPQRQTIYFRDPLKDSRFQLNFSSELKVSILTNVISDEG 120

Qy 121 RYFCQLYTDPPQSSYTTITVLVPPRNLMIDIQKDTAVEGEEIEVNCCTAMASKPATTTIRWF 180
Db 121 RYFCQLYTDPPQSSYTTITVLVPPRNLMIDIQKDTAVEGEEIEVNCCTAMASKPATTTIRWF 180

Qy 181 KGNTLKGKSEVESEWSDMYTTSQMLKVHKEDDGVPIQVEHPAVTGNLQORYLEVQ 240
Db 181 KGNTLKGKSEVESEWSDMYTTSQMLKVHKEDDGVPIQVEHPAVTGNLQORYLEVQ 240

Qy 241 YKQVHIQMTYPLQGLTREGDALELTCEAIGKQPQVWVTVRVDDEMPQHAVLSGPNLFI 300
Db 241 YKQVHIQMTYPLQGLTREGDALELTCEAIGKQPQVWVTVRVDDEMPQHAVLSGPNLFI 300

Qy 301 NNLNKTONGTYRCEASNIVGKAHSDYMLVYVDPPTTIPPTTTTTTTTTTTTTITD 360
Db 301 NNLNKTONGTYRCEASNIVGKAHSDYMLVYVDPPTTIPPTTTTTTTTTTTTTITD 360

Qy 361 SRAGEGSIRAVDHAVIGGVAVVVFAMLCLLIILGRYFARHKGTYFTHEAKGADDAADA 420
Db 361 SRAGEGSIRAVDHAVIGGVAVVVFAMLCLLIILGRYFARHKGTYFTHEAKGADDAADA 420

Qy 421 DTAINAEGGQNNSEKKEYFI 442
Db 421 DTAINAEGGQNNSEKKEYFI 442

RESULT 3
US-09-984-130-136
; Sequence 136, Application US/09984130
; Publication No. US20030055231A1
; GENERAL INFORMATION:
; APPLICANT: Ni et al.
; TITLE OF INVENTION: 12 Human Secreted Proteins
; FILE REFERENCE: PF489P2
; CURRENT APPLICATION NUMBER: US/09/984,130
; CURRENT FILING DATE: 2001-10-29
; PRIOR FILING DATE: 2000-10-30
; PRIOR FILING DATE: 2000-10-30
; PRIOR FILING DATE: 2001-04-18
; PRIOR FILING DATE: 2000-04-19
; PRIOR FILING DATE: 1999-10-27
; PRIOR FILING DATE: 1998-10-28
; NUMBER OF SEQ ID NOS: 149
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 136
; LENGTH: 442
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-984-130-136

Query Match
Best Local Similarity 100.0%; Score 442; DB 10; Length 442;
Matches 442; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MASVLPSSGSCAAAAAAPPGLRLRLRLLLLSAALIPDGGQNLFTKDVTVIEGEVA 60
Db 1 MASVLPSSGSCAAAAAAPPGLRLRLRLLLLSAALIPDGGQNLFTKDVTVIEGEVA 60

Qy 61 TISCQVNSDSDSVIQLLNPQRQTIYFRDPLKDSRFQLNFSSELKVSILTNVISDEG 120
Db 61 TISCQVNSDSDSVIQLLNPQRQTIYFRDPLKDSRFQLNFSSELKVSILTNVISDEG 120

Qy 121 RYFCQLYTDPPQSSYTTITVLVPPRNLMIDIQKDTAVEGEEIEVNCCTAMASKPATTTIRWF 180
Db 121 RYFCQLYTDPPQSSYTTITVLVPPRNLMIDIQKDTAVEGEEIEVNCCTAMASKPATTTIRWF 180

Qy 181 KGNTLKGKSEVESEWSDMYTTSQMLKVHKEDDGVPIQVEHPAVTGNLQORYLEVQ 240
Db 181 KGNTLKGKSEVESEWSDMYTTSQMLKVHKEDDGVPIQVEHPAVTGNLQORYLEVQ 240

Qy 241 YKQVHIQMTYPLQGLTREGDALELTCEAIGKQPQVWVTVRVDDEMPQHAVLSGPNLFI 300
Db 241 YKQVHIQMTYPLQGLTREGDALELTCEAIGKQPQVWVTVRVDDEMPQHAVLSGPNLFI 300

Qy 301 NNLNKTONGTYRCEASNIVGKAHSDYMLVYVDPPTTIPPTTTTTTTTTTTTTITD 360
Db 301 NNLNKTONGTYRCEASNIVGKAHSDYMLVYVDPPTTIPPTTTTTTTTTTTTTITD 360

Qy 361 SRAGEGSIRAVDHAVIGGVAVVVFAMLCLLIILGRYFARHKGTYFTHEAKGADDAADA 420
Db 361 SRAGEGSIRAVDHAVIGGVAVVVFAMLCLLIILGRYFARHKGTYFTHEAKGADDAADA 420

Qy 421 DTAINAEGGQNNSEKKEYFI 442
Db 421 DTAINAEGGQNNSEKKEYFI 442

RESULT 4
US-09-836-353A-136
; Sequence 136, Application US/09836353A
; Publication No. US20030129685A1
; GENERAL INFORMATION:
; APPLICANT: Ni et al.
; TITLE OF INVENTION: 12 Human Secreted Proteins
; FILE REFERENCE: PF489P1
; CURRENT APPLICATION NUMBER: US/09/836,353A
; CURRENT FILING DATE: 2001-04-18
; PRIOR FILING DATE: 2001-04-18
; PRIOR FILING DATE: 60/198,407
; PRIOR FILING DATE: 2000-04-19
; PRIOR FILING DATE: 1999-10-27
; PRIOR FILING DATE: 1998-10-28
; NUMBER OF SEQ ID NOS: 147
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 136
; LENGTH: 442
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-836-353A-136

Query Match
Best Local Similarity 100.0%; Score 442; DB 10; Length 442;
Matches 442; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MASVLPSSGSCAAAAAAPPGLRLRLRLLLLSAALIPDGGQNLFTKDVTVIEGEVA 60
Db 1 MASVLPSSGSCAAAAAAPPGLRLRLRLLLLSAALIPDGGQNLFTKDVTVIEGEVA 60

Qy 61 TISCQVNSDSDSVIQLLNPQRQTIYFRDPLKDSRFQLNFSSELKVSILTNVISDEG 120
Db 61 TISCQVNSDSDSVIQLLNPQRQTIYFRDPLKDSRFQLNFSSELKVSILTNVISDEG 120

Qy 121 RYFCQLYTDPPQSSYTTITVLVPPRNLMIDIQKDTAVEGEEIEVNCCTAMASKPATTTIRWF 180
Db 121 RYFCQLYTDPPQSSYTTITVLVPPRNLMIDIQKDTAVEGEEIEVNCCTAMASKPATTTIRWF 180
```

Db 121 RYFCQLYTDPQESYTTITVLVPPRNLMDIQKDTAVEGEEIEVNCCTAMASKPATIRWF 180
Qy 181 KGNTLKGKSEVEWSDMYTTVTSQMLKVHKEDDGPVVICQVEHPAVTGNLQORYLEVQ 240
Db 181 KGNTLKGKSEVEWSDMYTTVTSQMLKVHKEDDGPVVICQVEHPAVTGNLQORYLEVQ 240
Qy 241 YKPQVHIQMTYPLQGLTREGDALELTCEAIGKQPQVMVTVWRVDDENPQHVLSGPNLFI 300
Db 241 YKPQVHIQMTYPLQGLTREGDALELTCEAIGKQPQVMVTVWRVDDENPQHVLSGPNLFI 300
Qy 301 NNLNKTDNGTYRCEASNIHGKAHSDYMLVYVDPPTTIPPPPTTTTTTTTTTTTTILITD 360
Db 301 NNLNKTDNGTYRCEASNIHGKAHSDYMLVYVDPPTTIPPPPTTTTTTTTTTTTTILITD 360
Qy 361 SRAGEEGSIRAVDHAIVGGVAVVVFAMLCLLIILGRYFARHKGTYFTHEAKGADDAADA 420
Db 361 SRAGEEGSIRAVDHAIVGGVAVVVFAMLCLLIILGRYFARHKGTYFTHEAKGADDAADA 420
Qy 421 DTAINAEGGQNNSEKKEYFI 442
Db 421 DTAINAEGGQNNSEKKEYFI 442

RESULT 5
US-10-302-041-20
; Sequence 20, Application US/10302041
; Publication No. US20030144478A1
; GENERAL INFORMATION:
; APPLICANT: Baum, Peter
; TITLE OF INVENTION: Molecules Designated B7L1
; FILE REFERENCE: 2844-US
; CURRENT APPLICATION NUMBER: US/10/302,041
; CURRENT FILING DATE: 2002-11-21
; PRIOR APPLICATION NUMBER: US/09/778,510
; PRIOR FILING DATE: 2001-02-07
; PRIOR APPLICATION NUMBER: PCT/US99/17906
; PRIOR FILING DATE: 1999-08-05
; PRIOR APPLICATION NUMBER: 60/095,663
; PRIOR FILING DATE: 1998-08-07
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: Patentin ver. 2.0
; SEQ ID NO 20
; LENGTH: 442
; TYPE: PRT
; ORGANISM: Homo sapien
US-10-302-041-20

Query Match 100.0%; Score 442; DB 14; Length 442;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 442; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MASVLPSSGQCAAAAAAAPPGLRLRLLLLSAAALIPGTGQNLFTKDVTVIEGEVA 60
Db 1 MASVLPSSGQCAAAAAAAPPGLRLRLLLLSAAALIPGTGQNLFTKDVTVIEGEVA 60
Qy 61 TISCQVNSDDSVIQLNPNRQTIYFRDPLKDSRFQLNFSSELKVSILTNSISDEG 120
Db 61 TISCQVNSDDSVIQLNPNRQTIYFRDPLKDSRFQLNFSSELKVSILTNSISDEG 120
Qy 121 RYFCQLYTDPQESYTTITVLVPPRNLMDIQKDTAVEGEEIEVNCCTAMASKPATIRWF 180
Db 121 RYFCQLYTDPQESYTTITVLVPPRNLMDIQKDTAVEGEEIEVNCCTAMASKPATIRWF 180
Qy 181 KGNTLKGKSEVEWSDMYTTVTSQMLKVHKEDDGPVVICQVEHPAVTGNLQORYLEVQ 240
Db 181 KGNTLKGKSEVEWSDMYTTVTSQMLKVHKEDDGPVVICQVEHPAVTGNLQORYLEVQ 240
Qy 241 YKPQVHIQMTYPLQGLTREGDALELTCEAIGKQPQVMVTVWRVDDENPQHVLSGPNLFI 300
Db 241 YKPQVHIQMTYPLQGLTREGDALELTCEAIGKQPQVMVTVWRVDDENPQHVLSGPNLFI 300
Qy 301 NNLNKTDNGTYRCEASNIHGKAHSDYMLVYVDPPTTIPPPPTTTTTTTTTTTTTILITD 360
Db 301 NNLNKTDNGTYRCEASNIHGKAHSDYMLVYVDPPTTIPPPPTTTTTTTTTTTTTILITD 360
Qy 361 SRAGEEGSIRAVDHAIVGGVAVVVFAMLCLLIILGRYFARHKGTYFTHEAKGADDAADA 420
Db 361 SRAGEEGSIRAVDHAIVGGVAVVVFAMLCLLIILGRYFARHKGTYFTHEAKGADDAADA 420
Qy 421 DTAINAEGGQNNSEKKEYFI 442
Db 421 DTAINAEGGQNNSEKKEYFI 442

RESULT 7
US-10-015-115-111

Db 301 NNLNKTDNGTYRCEASNIHGKAHSDYMLVYVDPPTTIPPPPTTTTTTTTTTTTTILITD 360
Qy 361 SRAGEEGSIRAVDHAIVGGVAVVVFAMLCLLIILGRYFARHKGTYFTHEAKGADDAADA 420
Db 361 SRAGEEGSIRAVDHAIVGGVAVVVFAMLCLLIILGRYFARHKGTYFTHEAKGADDAADA 420
Qy 421 DTAINAEGGQNNSEKKEYFI 442
Db 421 DTAINAEGGQNNSEKKEYFI 442

RESULT 6
US-10-403-107-1
; Sequence 1, Application US/10403107
; Publication No. US20030165974A1
; GENERAL INFORMATION:
; APPLICANT: THE JOHNS HOPKINS UNIVERSITY SCHOOL OF MEDICINE
; APPLICANT: REEVES, Roger
; APPLICANT: YOSHINORI, Muramaki
; TITLE OF INVENTION: DIAGNOSIS AND TREATMENT OF TUMOR-SUPPRESSOR ASSOCIATED DISORDERS
; FILE REFERENCE: JHU1770-1
; CURRENT APPLICATION NUMBER: US/10/403,107
; CURRENT FILING DATE: 2003-03-28
; PRIOR APPLICATION NUMBER: US/09/930,803
; PRIOR FILING DATE: 2001-08-15
; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: Patentin version 3.0
; SEQ ID NO 1
; LENGTH: 442
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-403-107-1

Query Match 100.0%; Score 442; DB 14; Length 442;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 442; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MASVLPSSGQCAAAAAAAPPGLRLRLLLLSAAALIPGTGQNLFTKDVTVIEGEVA 60
Db 1 MASVLPSSGQCAAAAAAAPPGLRLRLLLLSAAALIPGTGQNLFTKDVTVIEGEVA 60
Qy 61 TISCQVNSDDSVIQLNPNRQTIYFRDPLKDSRFQLNFSSELKVSILTNSISDEG 120
Db 61 TISCQVNSDDSVIQLNPNRQTIYFRDPLKDSRFQLNFSSELKVSILTNSISDEG 120
Qy 121 RYFCQLYTDPQESYTTITVLVPPRNLMDIQKDTAVEGEEIEVNCCTAMASKPATIRWF 180
Db 121 RYFCQLYTDPQESYTTITVLVPPRNLMDIQKDTAVEGEEIEVNCCTAMASKPATIRWF 180
Qy 181 KGNTLKGKSEVEWSDMYTTVTSQMLKVHKEDDGPVVICQVEHPAVTGNLQORYLEVQ 240
Db 181 KGNTLKGKSEVEWSDMYTTVTSQMLKVHKEDDGPVVICQVEHPAVTGNLQORYLEVQ 240
Qy 241 YKPQVHIQMTYPLQGLTREGDALELTCEAIGKQPQVMVTVWRVDDENPQHVLSGPNLFI 300
Db 241 YKPQVHIQMTYPLQGLTREGDALELTCEAIGKQPQVMVTVWRVDDENPQHVLSGPNLFI 300
Qy 301 NNLNKTDNGTYRCEASNIHGKAHSDYMLVYVDPPTTIPPPPTTTTTTTTTTTTTILITD 360
Db 301 NNLNKTDNGTYRCEASNIHGKAHSDYMLVYVDPPTTIPPPPTTTTTTTTTTTTTILITD 360
Qy 361 SRAGEEGSIRAVDHAIVGGVAVVVFAMLCLLIILGRYFARHKGTYFTHEAKGADDAADA 420
Db 361 SRAGEEGSIRAVDHAIVGGVAVVVFAMLCLLIILGRYFARHKGTYFTHEAKGADDAADA 420
Qy 421 DTAINAEGGQNNSEKKEYFI 442
Db 421 DTAINAEGGQNNSEKKEYFI 442

```

; Sequence 111, Application US/10015115
; Publication No. US20030207800A1
; GENERAL INFORMATION:
; APPLICANT: Malyankar, Uriel M
; APPLICANT: Shenoy, Suresh G
; APPLICANT: Spytek, Kimberly A
; APPLICANT: Zerhusen, Bryan D
; APPLICANT: Patturajan, Meera
; APPLICANT: Guo, Xiaojia
; APPLICANT: Kekuda, Ramesha
; APPLICANT: Gangolli, Esha A
; APPLICANT: Shimkets, Richard A
; APPLICANT: Taupier, Raymond J
; APPLICANT: Li, Li
; APPLICANT: Padigaru, Muralidhara
; TITLE OF INVENTION: Proteins, Polynucleotides Encoding Them and Methods of
; TITLE OF INVENTION: Using the Same
; FILE REFERENCE: 21402-211
; CURRENT APPLICATION NUMBER: US/10/015,115
; CURRENT FILING DATE: 2002-09-23
; PRIOR APPLICATION NUMBER: 60/248,153
; PRIOR FILING DATE: 2000-11-13
; PRIOR APPLICATION NUMBER: 60/249,598
; PRIOR FILING DATE: 2000-11-17
; PRIOR APPLICATION NUMBER: 60/264,240
; PRIOR FILING DATE: 2001-01-26
; PRIOR APPLICATION NUMBER: 60/266,127
; PRIOR FILING DATE: 2001-02-02
; PRIOR APPLICATION NUMBER: 60/269,562
; PRIOR FILING DATE: 2001-02-16
; PRIOR APPLICATION NUMBER: 60/304,348
; PRIOR FILING DATE: 2001-07-10
; PRIOR APPLICATION NUMBER: 60/309,261
; PRIOR FILING DATE: 2001-07-31
; PRIOR APPLICATION NUMBER: 60/313,283
; PRIOR FILING DATE: 2001-08-17
; NUMBER OF SEQ ID NOS: 205
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 111
; LENGTH: 442
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-015-115-111

Query Match 100.0%; Score 442; DB 15; Length 442;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 442; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MASVLPSSGQCAAAAAAAPPGLRLRLRLLLLSAAALIPGTGQNLFTKDVTVIEGEVA 60
Db 1 MASVLPSSGQCAAAAAAAPPGLRLRLRLLLLSAAALIPGTGQNLFTKDVTVIEGEVA 60
Qy 61 TISCQVKSDDSVIQLLNPNROTIFYRDPRLKDSRFQLLNFSSELKVSILTNVISDEG 120
Db 61 TISCQVKSDDSVIQLLNPNROTIFYRDPRLKDSRFQLLNFSSELKVSILTNVISDEG 120
Qy 121 RYFCQLYTDPPOESYTTITLVPPRNLMIDIOKDTAVGEEIEVNVCTAMASKPATITIRWF 180
Db 121 RYFCQLYTDPPOESYTTITLVPPRNLMIDIOKDTAVGEEIEVNVCTAMASKPATITIRWF 180
Qy 181 KGNTLKGKSEVEEWSMDYTVTSQLMLKVHKEDDGVPVICQVEHPAVTGNLTQRYLEVQ 240
Db 181 KGNTLKGKSEVEEWSMDYTVTSQLMLKVHKEDDGVPVICQVEHPAVTGNLTQRYLEVQ 240
Qy 241 YKQVHIQMTYPIQGLTREGDALELTCEAIGKQPQPMVTWVRVDDMPQHAVLSGPNLFI 300
Db 241 YKQVHIQMTYPIQGLTREGDALELTCEAIGKQPQPMVTWVRVDDMPQHAVLSGPNLFI 300
Qy 301 NNLNKTDNGTYRCEASNIYVKAHSDYMLVYDPPPTTIPPTTTTTTTTTTTTTTTTTITD 360
Db 301 NNLNKTDNGTYRCEASNIYVKAHSDYMLVYDPPPTTIPPTTTTTTTTTTTTTTTTTITD 360
Qy 361 SRAGEGSIKAVDHAIVGGVAVVVFAMLCCLIILGRYFARHKGTYFTHEAKGADDAADA 420
Db 361 SRAGEGSIKAVDHAIVGGVAVVVFAMLCCLIILGRYFARHKGTYFTHEAKGADDAADA 420
Qy 421 DTAINAEGQNNSEKKEYFI 442
Db 421 DTAINAEGQNNSEKKEYFI 442

RESULT 9
US-10-622-237-2
; Sequence 2, Application US/1062237
; Publication No. US20040204568A1
; GENERAL INFORMATION:
; APPLICANT: Baum, Peter R.
; APPLICANT: Fanslow III, William C
; TITLE OF INVENTION: MOLECULES DESIGNATED LDCAM
; FILE REFERENCE: 2873-US

```

```
; CURRENT APPLICATION NUMBER: US/10/622,237
; CURRENT FILING DATE: 2003-07-17
; PRIOR APPLICATION NUMBER: US/09/778,187B
; PRIOR FILING DATE: 2001-02-06
; PRIOR APPLICATION NUMBER: PCT/US99/17905
; PRIOR FILING DATE: 1999-08-05
; PRIOR APPLICATION NUMBER: US 60/095,672
; PRIOR FILING DATE: 1998-08-07
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 2
; LENGTH: 442
; TYPE: PRT
; ORGANISM: homo sapiens
US-10-622-237-2

Query Match      100.0%; Score 442; DB 16; Length 442;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 442; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MASVLPSSGSCAAAAAAPPGLRLRLRLLLLSAAALIPGTGQNLFTKDVTVIEGEVA 60
Db 1 MASVLPSSGSCAAAAAAPPGLRLRLRLLLLSAAALIPGTGQNLFTKDVTVIEGEVA 60
Qy 61 TISCQVNSDSDSVIQLLNPNRQTIYFRDPRPLKDSRFQLLNFSSSELKVSILTNVSI 120
Db 61 TISCQVNSDSDSVIQLLNPNRQTIYFRDPRPLKDSRFQLLNFSSSELKVSILTNVSI 120
Qy 121 RYFCQLYTDPQESYTTITVLVPPRNLMDIOKDTAVEGEIEVNCCTAMASKPATIRWF 180
Db 121 RYFCQLYTDPQESYTTITVLVPPRNLMDIOKDTAVEGEIEVNCCTAMASKPATIRWF 180
Qy 181 KGNTLKGKSEVEWSDMYTVTSQMLKVHKEDDGVVICQVEHPAVTGNLQORYLEVQ 240
Db 181 KGNTLKGKSEVEWSDMYTVTSQMLKVHKEDDGVVICQVEHPAVTGNLQORYLEVQ 240
Qy 241 YKQVHIQMTYPLQGLTREGDALELTCEAIGKQPQVMVTVVRVDDDEMPQHAVLSGPNLFI 300
Db 241 YKQVHIQMTYPLQGLTREGDALELTCEAIGKQPQVMVTVVRVDDDEMPQHAVLSGPNLFI 300
Qy 301 NNLNKTNGTYRCEASNIQKSHSDYMLVYVDPPTTIPPTTTTTTTTTTTTTTTTTIITD 360
Db 301 NNLNKTNGTYRCEASNIQKSHSDYMLVYVDPPTTIPPTTTTTTTTTTTTTTTTTIITD 360
Qy 361 SRAGEGSIKRAVDHAVIGGVAVVVFAMLCILILGRYFARHKGTYTTHKAGDAADA 420
Db 361 SRAGEGSIKRAVDHAVIGGVAVVVFAMLCILILGRYFARHKGTYTTHKAGDAADA 420
Qy 421 DTAIINAEQQNNSEKKEYFI 442
Db 421 DTAIINAEQQNNSEKKEYFI 442

RESULT 11
US-09-866-028-61
; Sequence 61, Application US/09866028
; Patent No. US20020058309A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin
; APPLICANT: Botstein, David
; APPLICANT: Baton, Dan
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Geritsen, Mary
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul
; APPLICANT: Grimaldi, Christopher
; APPLICANT: Gurney, Austin
; APPLICANT: Hillan, Kenneth
; APPLICANT: Kljavin, Ivar
; APPLICANT: Napier, Mary
; APPLICANT: Roy, Margaret
; APPLICANT: Tumas, Daniel
; APPLICANT: Wood, William
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P2548P1C1
; CURRENT APPLICATION NUMBER: US/09/866, 028
; CURRENT FILING DATE: 2001-05-25
; Prior application data removed - consult PALM or file wrapper
; NUMBER OF SEQ ID NOS: 120
; SEQ ID NO 61
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-866-028-61

Query Match      94.3%; Score 417; DB 9; Length 440;
; US-10-622-237-2.oligo.rapb
```


Best Local Similarity 100.0%; Pred. No. 0;
Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 26 LRLLLLFSAALPTGQGNLFKDVTVIEGEVATISQVKNKSDSDSVIQLLNNRQTIY 85
Dy 24 LRLLLLFSAALPTGQGNLFKDVTVIEGEVATISQVKNKSDSDSVIQLLNNRQTIY 83
Qy 86 FRDPRPLKDSRFQLLNFSSELKSLNVSISDGRYFCQLYTDPPQESYTTITVLVPPR 145
Dy 84 FRDPRPLKDSRFQLLNFSSELKSLNVSISDGRYFCQLYTDPPQESYTTITVLVPPR 143
Qy 146 NLMDIQDXTAVEGEELVNCAMASKPATIRFKNGTELKKGSEVEESDMVTYTSOL 205
Dy 144 NLMDIQDXTAVEGEELVNCAMASKPATIRFKNGTELKKGSEVEESDMVTYTSOL 203
Qy 206 MLKVHKEDDGPVTCQVEHPAVTGNLQRYLEYQYKPVQHVQIOMTYPLQGLTREGDALEL 265
Dy 204 MLKVHKEDDGPVTCQVEHPAVTGNLQRYLEYQYKPVQHVQIOMTYPLQGLTREGDALEL 263
Qy 266 TCEAIGKQPQVMVTVRVDDEMPQHAVLSGNLFINLNKTDNGTYRCEASNIVGKAHSD 325
Dy 264 TCEAIGKQPQVMVTVRVDDEMPQHAVLSGNLFINLNKTDNGTYRCEASNIVGKAHSD 323
Qy 326 YMLVYDPTTIPPTTT 385
Dy 324 YMLVYDPTTIPPTTT 383
Qy 386 FAMILCLLIILGRYPARHKGTGYTFFHEAKGADDAADATAIINAEQQNNSEKKEYFI 442
Dy 384 FAMILCLLIILGRYPARHKGTGYTFFHEAKGADDAADATAIINAEQQNNSEKKEYFI 440

RESULT 12
US-09-944-449-61
; Sequence 61, Application US/09944449
; Patent No. US20020102647A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin
; APPLICANT: Botstein, David
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gerritsen, Mary
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul
; APPLICANT: Grimaldi, Christopher
; APPLICANT: Gurney, Austin
; APPLICANT: Hillan, Kenneth
; APPLICANT: Kljavin, Ivar
; APPLICANT: Napier, Mary
; APPLICANT: Roy, Margaret
; APPLICANT: Tumas, Daniel
; APPLICANT: Wood, William
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P2548P1C1
; CURRENT APPLICATION NUMBER: US/09/944,449
; CURRENT FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: 09/866,028
; PRIOR FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: 60/067,411
; PRIOR FILING DATE: December 3, 1997
; PRIOR APPLICATION NUMBER: 60/069,334
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,335
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,278
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,425
; PRIOR FILING DATE: December 12, 1997
; PRIOR APPLICATION NUMBER: 60/069,696
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,694

; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,702
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,870
; PRIOR FILING DATE: December 17, 1997
; PRIOR APPLICATION NUMBER: 60/069,873
; PRIOR FILING DATE: December 17, 1997
; PRIOR APPLICATION NUMBER: 60/068,017
; PRIOR FILING DATE: December 18, 1997
; PRIOR APPLICATION NUMBER: 60/070,440
; PRIOR FILING DATE: January 5, 1998
; PRIOR APPLICATION NUMBER: 60/074,086
; PRIOR FILING DATE: February 9, 1998
; PRIOR APPLICATION NUMBER: 60/074,092
; PRIOR FILING DATE: February 9, 1998
; PRIOR APPLICATION NUMBER: 60/075,945
; PRIOR FILING DATE: February 25, 1998
; PRIOR APPLICATION NUMBER: 60/112,850
; PRIOR FILING DATE: December 16, 1998
; PRIOR APPLICATION NUMBER: 60/113,296
; PRIOR FILING DATE: December 22, 1998
; PRIOR APPLICATION NUMBER: 60/146,222
; PRIOR FILING DATE: July 28, 1999
; PRIOR APPLICATION NUMBER: PCT/US98/19330
; PRIOR FILING DATE: September 16, 1998
; PRIOR APPLICATION NUMBER: PCT/US98/25108
; PRIOR FILING DATE: December 1, 1998
; PRIOR APPLICATION NUMBER: 09/216,021
; PRIOR FILING DATE: December 16, 1998
; PRIOR APPLICATION NUMBER: 09/218,517
; PRIOR FILING DATE: December 22, 1998
; PRIOR APPLICATION NUMBER: 09/254,311
; PRIOR FILING DATE: March 3, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/12252
; PRIOR FILING DATE: June 22, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: September 15, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28409
; PRIOR FILING DATE: No. US20020102647A1ember 30, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: No. US20020102647A1ember 30, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28301
; PRIOR FILING DATE: December 1, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: December 16, 1999
; PRIOR APPLICATION NUMBER: PCT/US00/03565
; PRIOR FILING DATE: February 11, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: February 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/05841
; PRIOR FILING DATE: March 2, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/08439
; PRIOR FILING DATE: March 30, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/14042
; PRIOR FILING DATE: May 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/20710
; PRIOR FILING DATE: July 28, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/32678
; PRIOR FILING DATE: December 1, 2000
; PRIOR APPLICATION NUMBER: PCT/US01/06520
; PRIOR FILING DATE: February 28, 2001
; NUMBER OF SEQ ID NOS: 120
; SEQ ID NO 61
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-944-449-61

Query Match 94.3%; Score 417; DB 9; Length 440;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 26 LRLLLLFSAALPTGQGNLFKDVTVIEGEVATISQVKNKSDSDSVIQLLNNRQTIY 85

```
Db 24 LRLLLLLSAAALPTGQGNLFKDVTVIEGEVATISCVNKSDDSVIQLLNPRTIY 83
Qy 86 FRDFRPLKDSRFQLLNFSSSELKVSLSNVISDSGRYFCOLYTDPPQESYTTITVLVPPR 145
Db 84 FRDFRPLKDSRFQLLNFSSSELKVSLSNVISDSGRYFCOLYTDPPQESYTTITVLVPPR 143
Qy 146 NLMDIQDRAVEGEIEVNCATAMASKPATIRFKGNTELKKGSEVEEWSMDYTVTSOL 205
Db 144 NLMDIQDRAVEGEIEVNCATAMASKPATIRFKGNTELKKGSEVEEWSMDYTVTSOL 203
Qy 206 MLKVHKEDDGPVVCQVEHPAVTGNLQRYLEVQYKPVHIOQMTYPLQGLTREGDALEL 265
Db 204 MLKVHKEDDGPVVCQVEHPAVTGNLQRYLEVQYKPVHIOQMTYPLQGLTREGDALEL 263
Qy 266 TCEAIGKQPQVMVTVVDDVDEMPQHAVLSGNLFINNLKTDNGTYRCEASNIVGKAHSD 325
Db 264 TCEAIGKQPQVMVTVVDDVDEMPQHAVLSGNLFINNLKTDNGTYRCEASNIVGKAHSD 323
Qy 326 YMLVYDPPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 385
Db 324 YMLVYDPPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 383
Qy 386 FAMLCLLIILGRYPARHKGYFTHEAKGADDAADATTAIINAEQQNNSEKKEYFI 442
Db 384 FAMLCLLIILGRYPARHKGYFTHEAKGADDAADATTAIINAEQQNNSEKKEYFI 440
```

RESULT 13

```
US-09-944-457-61
; Sequence 61, Application US/09944457
; Patent No. US20020110859A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin
; APPLICANT: Botstein, David
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gerritsen, Mary
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul
; APPLICANT: Grimaldi, Christopher
; APPLICANT: Gurney, Austin
; APPLICANT: Hillan, Kenneth
; APPLICANT: Kljavin, Ivar
; APPLICANT: Napier, Mary
; APPLICANT: Roy, Margaret
; APPLICANT: Tumas, Daniel
; APPLICANT: Wood, William
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P2548P1C1
; CURRENT APPLICATION NUMBER: US/09/944,457
; CURRENT FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: 09/866,028
; PRIOR FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: 60/067,411
; PRIOR FILING DATE: December 3, 1997
; PRIOR APPLICATION NUMBER: 60/069,334
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,335
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,278
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,425
; PRIOR FILING DATE: December 12, 1997
; PRIOR APPLICATION NUMBER: 60/069,696
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,694
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,702
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,870
```

```
; PRIOR FILING DATE: December 17, 1997
; PRIOR APPLICATION NUMBER: 60/069,873
; PRIOR FILING DATE: December 17, 1997
; PRIOR APPLICATION NUMBER: 60/068,017
; PRIOR FILING DATE: December 18, 1997
; PRIOR APPLICATION NUMBER: 60/070,440
; PRIOR FILING DATE: January 5, 1998
; PRIOR APPLICATION NUMBER: 60/074,086
; PRIOR FILING DATE: February 9, 1998
; PRIOR APPLICATION NUMBER: 60/074,092
; PRIOR FILING DATE: February 9, 1998
; PRIOR APPLICATION NUMBER: 60/075,945
; PRIOR FILING DATE: February 25, 1998
; PRIOR APPLICATION NUMBER: 60/112,850
; PRIOR FILING DATE: December 16, 1998
; PRIOR APPLICATION NUMBER: 60/113,296
; PRIOR FILING DATE: December 22, 1998
; PRIOR APPLICATION NUMBER: 60/146,222
; PRIOR FILING DATE: July 28, 1999
; PRIOR APPLICATION NUMBER: PCT/US98/19330
; PRIOR FILING DATE: September 16, 1998
; PRIOR APPLICATION NUMBER: PCT/US98/25108
; PRIOR FILING DATE: December 1, 1998
; PRIOR APPLICATION NUMBER: 09/216,021
; PRIOR FILING DATE: December 16, 1998
; PRIOR APPLICATION NUMBER: 09/218,517
; PRIOR FILING DATE: December 22, 1998
; PRIOR APPLICATION NUMBER: 09/254,311
; PRIOR FILING DATE: March 3, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/12252
; PRIOR FILING DATE: June 22, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: September 15, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28409
; PRIOR FILING DATE: No. US20020110859A1ember 30, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: No. US20020110859A1ember 30, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28301
; PRIOR FILING DATE: December 1, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: December 16, 1999
; PRIOR APPLICATION NUMBER: PCT/US00/03565
; PRIOR FILING DATE: February 11, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: February 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/05841
; PRIOR FILING DATE: March 2, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/08439
; PRIOR FILING DATE: March 30, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/14042
; PRIOR FILING DATE: May 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/20710
; PRIOR FILING DATE: July 28, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/32678
; PRIOR FILING DATE: December 1, 2000
; PRIOR APPLICATION NUMBER: PCT/US01/06520
; PRIOR FILING DATE: February 28, 2001
; NUMBER OF SEQ ID NOS: 120
; SEQ ID NO 61
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
; US-09-944-457-61
```

Query Match 94.3%; Score 417; DB 9; Length 440;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 26 LRLLLLLSAAALPTGQGNLFKDVTVIEGEVATISCVNKSDDSVIQLLNPRTIY 85

Db 24 LRLLLLLSAAALPTGQGNLFKDVTVIEGEVATISCVNKSDDSVIQLLNPRTIY 83

Qy 86 FRDFRPLKDSRFQLLNFSSSELKVSLSNVISDSGRYFCOLYTDPPQESYTTITVLVPPR 145

Db 84 FRFRPLKDSRFQLLNFSSELKVLNVSISDEGRVFCQLYTDPPOESYTTITVLVPPR 143
Qy 146 NLMDIQKOTAVEGEIEVNCVTAMASKPATIRFWKGNTELKKGSEVEESDMYTVTSQ 205
Db 144 NLMDIQKOTAVEGEIEVNCVTAMASKPATIRFWKGNTELKKGSEVEESDMYTVTSQ 203
Qy 206 MLKVHKEDDGPVVICQVEHPAVGNLQRYLEVOYKPOVHIQWYTPLOGLTREGDALEL 265
Db 204 MLKVHKEDDGPVVICQVEHPAVGNLQRYLEVOYKPOVHIQWYTPLOGLTREGDALEL 263
Qy 266 TCAIGKQPQVMTWVRVDDMPHVAVLSPGNLFINNLKTDNGTYRCEASNIVGKAHSD 325
Db 264 TCAIGKQPQVMTWVRVDDMPHVAVLSPGNLFINNLKTDNGTYRCEASNIVGKAHSD 323
Qy 326 YMLVYVDPPTTIPPTTTTTTTTTTTTTTTTTTTTTITDTSRAGEEGSIRAVDHAVIGWVAVV 385
Db 324 YMLVYVDPPTTIPPTTTTTTTTTTTTTTTTTTTTTITDTSRAGEEGSIRAVDHAVIGWVAVV 383
Qy 386 FAMLCLLIILGRFARHKGYTFHTEAKGADDAADATTAIINAEQQNNSEKKEYFI 442
Db 384 FAMLCLLIILGRYFARHKGYTFHTEAKGADDAADATTAIINAEQQNNSEKKEYFI 440

RESULT 14

US-09-944-862-61
; Sequence 61, Application US/09944862
; Patent No. US20020115145A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin
; APPLICANT: Botstein, David
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gerritsen, Mary
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul
; APPLICANT: Grimaldi, Christopher
; APPLICANT: Gurney, Austin
; APPLICANT: Hillan, Kenneth
; APPLICANT: Kljavin, Ivar
; APPLICANT: Napier, Mary
; APPLICANT: Roy, Margaret
; APPLICANT: Tumas, Daniel
; APPLICANT: Wood, William
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P2548P1C1
; CURRENT APPLICATION NUMBER: US/09/944,862
; CURRENT FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: 09/866,028
; PRIOR FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: 60/067,411
; PRIOR FILING DATE: December 3, 1997
; PRIOR APPLICATION NUMBER: 60/069,334
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,335
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,278
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,425
; PRIOR FILING DATE: December 12, 1997
; PRIOR APPLICATION NUMBER: 60/069,696
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,694
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,702
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,870
; PRIOR FILING DATE: December 17, 1997
; PRIOR APPLICATION NUMBER: 60/069,873
; PRIOR FILING DATE: December 17, 1997
; PRIOR APPLICATION NUMBER: 60/068,017

; PRIOR FILING DATE: December 18, 1997
; PRIOR APPLICATION NUMBER: 60/070,440
; PRIOR FILING DATE: January 5, 1998
; PRIOR APPLICATION NUMBER: 60/074,086
; PRIOR FILING DATE: February 9, 1998
; PRIOR APPLICATION NUMBER: 60/074,092
; PRIOR FILING DATE: February 9, 1998
; PRIOR APPLICATION NUMBER: 60/075,945
; PRIOR FILING DATE: February 25, 1998
; PRIOR APPLICATION NUMBER: 60/112,850
; PRIOR FILING DATE: December 16, 1998
; PRIOR APPLICATION NUMBER: 60/113,296
; PRIOR FILING DATE: December 22, 1998
; PRIOR APPLICATION NUMBER: 60/146,222
; PRIOR FILING DATE: July 28, 1999
; PRIOR APPLICATION NUMBER: PCT/US98/19330
; PRIOR FILING DATE: September 16, 1998
; PRIOR APPLICATION NUMBER: PCT/US98/25108
; PRIOR FILING DATE: December 1, 1998
; PRIOR APPLICATION NUMBER: 09/216,021
; PRIOR FILING DATE: December 16, 1998
; PRIOR APPLICATION NUMBER: 09/218,517
; PRIOR FILING DATE: December 22, 1998
; PRIOR APPLICATION NUMBER: 09/254,311
; PRIOR FILING DATE: March 3, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/12252
; PRIOR FILING DATE: June 22, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: September 15, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28409
; PRIOR FILING DATE: No. US20020115145A1ember 30, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: No. US20020115145A1ember 30, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28301
; PRIOR FILING DATE: December 1, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: December 16, 1999
; PRIOR APPLICATION NUMBER: PCT/US00/03565
; PRIOR FILING DATE: February 11, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: February 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/05841
; PRIOR FILING DATE: March 2, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/08439
; PRIOR FILING DATE: March 30, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/14042
; PRIOR FILING DATE: May 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/20710
; PRIOR FILING DATE: July 28, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/32678
; PRIOR FILING DATE: December 1, 2000
; PRIOR APPLICATION NUMBER: PCT/US01/06520
; PRIOR FILING DATE: February 28, 2001
; NUMBER OF SEQ ID NOS: 120
; SEQ ID NO 61
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-944-862-61

Query Match 94.3%; Score 417; DB 9; Length 440;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 26 LRLLLLFSAALIPGTGQNLFTKQVTVIEGEVATISCVNKSDDSVIQLLNPRTIY 85
Db 24 LRLLLLFSAALIPGTGQNLFTKQVTVIEGEVATISCVNKSDDSVIQLLNPRTIY 83
Qy 86 FRFRPLKDSRFQLLNFSSELKVLNVSISDEGRVFCQLYTDPPOESYTTITVLVPPR 145
Db 84 FRFRPLKDSRFQLLNFSSELKVLNVSISDEGRVFCQLYTDPPOESYTTITVLVPPR 143
Qy 146 NLMDIQKOTAVEGEIEVNCVTAMASKPATIRFWKGNTELKKGSEVEESDMYTVTSQ 205

Db 144 NLMDIQDQTAVERGEIEVNTAMASKPATTTIRFKGNTLKGKSEVEEWSDMYVTSQ 203
QY 206 MLKVHKEDDGPVICOVEHPAVTGNLQRYLYEVQVKPQVHIQMTYPLQGLTREGDALE 265
Db 204 MLKVHKEDDGPVICOVEHPAVTGNLQRYLYEVQVKPQVHIQMTYPLQGLTREGDALE 263
QY 266 TCEAIGKQPQVMVWTVRVDDEMPQHAVLSGPNLFINNKNKTNGTYRCEASNIVGKAHSD 325
Db 264 TCEAIGKQPQVMVWTVRVDDEMPQHAVLSGPNLFINNKNKTNGTYRCEASNIVGKAHSD 323
QY 326 YMLYVDDPPTTIPPTTTTTTTTTTTTTTTTTTTTTITDTSRAGEGSIKRAVDHAGVGVAVV 385
Db 324 YMLYVDDPPTTIPPTTTTTTTTTTTTTTTTTTTTTITDTSRAGEGSIKRAVDHAGVGVAVV 383
QY 386 FAMLCLLLIILGRYFARHKGTYFTHKAGGADDAADATAIINAGGQNNSEKKEYFI 442
Db 384 FAMLCLLLIILGRYFARHKGTYFTHKAGGADDAADATAIINAGGQNNSEKKEYFI 440

RESULT 15
US-09-945-587-61
; Sequence 61, Application US/09945587
; Patent No. US20020127643A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin
; APPLICANT: Botstein, David
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gerritsen, Mary
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul
; APPLICANT: Grimaldi, Christopher
; APPLICANT: Gurney, Austin
; APPLICANT: Hillan, Kenneth
; APPLICANT: Kljavin, Ivar
; APPLICANT: Napier, Mary
; APPLICANT: Roy, Margaret
; APPLICANT: Tumas, Daniel
; APPLICANT: Wood, William
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE OF INVENTION: ACIDS ENCODING THE SAME
; FILE REFERENCE: P2548P1C1
; CURRENT APPLICATION NUMBER: US/09/945,587
; CURRENT FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: 09/866,028
; PRIOR FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: 60/067,411
; PRIOR FILING DATE: December 3, 1997
; PRIOR APPLICATION NUMBER: 60/069,334
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,335
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,278
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,425
; PRIOR FILING DATE: December 12, 1997
; PRIOR APPLICATION NUMBER: 60/069,696
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,694
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,702
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,870
; PRIOR FILING DATE: December 17, 1997
; PRIOR APPLICATION NUMBER: 60/069,873
; PRIOR FILING DATE: December 17, 1997
; PRIOR APPLICATION NUMBER: 60/068,017
; PRIOR FILING DATE: December 18, 1997
; PRIOR APPLICATION NUMBER: 60/070,440
; PRIOR FILING DATE: January 5, 1998
; PRIOR APPLICATION NUMBER: 60/074,086

; PRIOR FILING DATE: February 9, 1998
; PRIOR APPLICATION NUMBER: 60/074,092
; PRIOR FILING DATE: February 9, 1998
; PRIOR APPLICATION NUMBER: 60/075,945
; PRIOR FILING DATE: February 25, 1998
; PRIOR APPLICATION NUMBER: 60/112,850
; PRIOR FILING DATE: December 16, 1998
; PRIOR APPLICATION NUMBER: 60/113,296
; PRIOR FILING DATE: December 22, 1998
; PRIOR APPLICATION NUMBER: 60/146,222
; PRIOR FILING DATE: July 28, 1999
; PRIOR APPLICATION NUMBER: PCT/US98/19330
; PRIOR FILING DATE: September 16, 1998
; PRIOR APPLICATION NUMBER: PCT/US98/25108
; PRIOR FILING DATE: December 1, 1998
; PRIOR APPLICATION NUMBER: 09/216,021
; PRIOR FILING DATE: December 16, 1998
; PRIOR APPLICATION NUMBER: 09/218,517
; PRIOR FILING DATE: December 22, 1998
; PRIOR APPLICATION NUMBER: 09/254,311
; PRIOR FILING DATE: March 3, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/12252
; PRIOR FILING DATE: June 22, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: September 15, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28409
; PRIOR FILING DATE: No. US20020127643A1ember 30, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: No. US20020127643A1ember 30, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28301
; PRIOR FILING DATE: December 1, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: December 16, 1999
; PRIOR APPLICATION NUMBER: PCT/US00/03565
; PRIOR FILING DATE: February 11, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: February 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/05841
; PRIOR FILING DATE: March 2, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/08439
; PRIOR FILING DATE: March 30, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/14042
; PRIOR FILING DATE: May 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/20710
; PRIOR FILING DATE: July 28, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/32678
; PRIOR FILING DATE: December 1, 2000
; PRIOR APPLICATION NUMBER: PCT/US01/06520
; PRIOR FILING DATE: February 28, 2001
; NUMBER OF SEQ ID NOS: 120
; SEQ ID NO 61
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-945-587-61
Query Match 94.3%; Score 417; DB 9; Length 440;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 26 LRLLLLFSAALIPGTGQNLFTKDVTVIEGEVATISQVKNKSDSDSVIQLLNPRTIY 85
Db 24 LRLLLLFSAALIPGTGQNLFTKDVTVIEGEVATISQVKNKSDSDSVIQLLNPRTIY 83
QY 86 FRDFRLKDSRFOLLNFSSELKVSILTNVSIISDEGRYFCOLYTDPPQESVTTITVLVPPR 145
Db 84 FRDFRLKDSRFOLLNFSSELKVSILTNVSIISDEGRYFCOLYTDPPQESVTTITVLVPPR 143
QY 146 NLMDIQDQTAVERGEIEVNTAMASKPATTTIRFKGNTLKGKSEVEEWSDMYVTSQ 205
Db 144 NLMDIQDQTAVERGEIEVNTAMASKPATTTIRFKGNTLKGKSEVEEWSDMYVTSQ 203
QY 206 MLKVHKEDDGPVICOVEHPAVTGNLQRYLYEVQVKPQVHIQMTYPLQGLTREGDALE 265

Db 204 MLKVHKKDDGVPVLCQVEHPAVTGNLTQRYLEVOYKPOVHIQMTYPLQSLTREGDALEL 263
Qy 266 TCEAIGKQPQPMVWTVRVDDEMPQHAVLSGPNLFINNLTNDGTGYRCEASNIVGKAHSD 325
Db 264 TCEAIGKQPQPMVWTVRVDDEMPQHAVLSGPNLFINNLTNDGTGYRCEASNIVGKAHSD 323
Qy 326 YMLVYVDPPTTIPPTTTTTTTTTTTTTTTTTTTTTTSDSAGEGSRADVHDHAVIGGVAVV 395
Db 324 YMLVYVDPPTTIPPTTTTTTTTTTTTTTTTTTTTTTSDSAGEGSRADVHDHAVIGGVAVV 383
Qy 386 FAMLCLLIILGRVFARHKGYTFTHAKGADDAADATTAIINAEQQGNNSEKKEYFI 442
Db 384 FAMLCLLIILGRVFARHKGYTFTHAKGADDAADATTAIINAEQQGNNSEKKEYFI 440

RESULT 16

US-09-945-015-61
; Sequence 61, Application US/09945015
; Patent No. US20020132768A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin
; APPLICANT: Botstein, David
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gerritsen, Mary
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul
; APPLICANT: Grimaldi, Christopher
; APPLICANT: Gurney, Austin
; APPLICANT: Hillan, Kenneth
; APPLICANT: Kljavin, Ivar
; APPLICANT: Napier, Mary
; APPLICANT: Roy, Margaret
; APPLICANT: Tumas, Daniel
; APPLICANT: Wood, William
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; TITLE OF INVENTION: ACIDS ENCODING THE SAME
; FILE REFERENCE: P2548P1C1
; CURRENT APPLICATION NUMBER: US/09/945,015
; CURRENT FILING DATE: 2001-09-26
; PRIOR FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: 60/067,411
; PRIOR FILING DATE: December 3, 1997
; PRIOR APPLICATION NUMBER: 60/069,334
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,335
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,278
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,425
; PRIOR FILING DATE: December 12, 1997
; PRIOR APPLICATION NUMBER: 60/069,696
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,694
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,702
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,870
; PRIOR FILING DATE: December 17, 1997
; PRIOR APPLICATION NUMBER: 60/069,873
; PRIOR FILING DATE: December 17, 1997
; PRIOR APPLICATION NUMBER: 60/068,017
; PRIOR FILING DATE: December 18, 1997
; PRIOR APPLICATION NUMBER: 60/070,440
; PRIOR FILING DATE: January 5, 1998
; PRIOR APPLICATION NUMBER: 60/074,086
; PRIOR FILING DATE: February 9, 1998
; PRIOR APPLICATION NUMBER: 60/074,092
; PRIOR FILING DATE: February 9, 1998
; PRIOR APPLICATION NUMBER: 60/075,945

; PRIOR FILING DATE: February 25, 1998
; PRIOR APPLICATION NUMBER: 60/112,850
; PRIOR FILING DATE: December 16, 1998
; PRIOR APPLICATION NUMBER: 60/113,296
; PRIOR FILING DATE: December 22, 1998
; PRIOR APPLICATION NUMBER: 60/146,222
; PRIOR FILING DATE: July 28, 1999
; PRIOR APPLICATION NUMBER: PCT/US98/19330
; PRIOR FILING DATE: September 16, 1998
; PRIOR APPLICATION NUMBER: PCT/US98/25108
; PRIOR FILING DATE: December 1, 1998
; PRIOR APPLICATION NUMBER: 09/216,021
; PRIOR FILING DATE: December 16, 1998
; PRIOR APPLICATION NUMBER: 09/218,517
; PRIOR FILING DATE: December 22, 1998
; PRIOR APPLICATION NUMBER: 09/254,311
; PRIOR FILING DATE: March 3, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/12252
; PRIOR FILING DATE: June 22, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: September 15, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28409
; PRIOR FILING DATE: No. US20020132768A1ember 30, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: No. US20020132768A1ember 30, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28301
; PRIOR FILING DATE: December 1, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: December 16, 1999
; PRIOR APPLICATION NUMBER: PCT/US00/03565
; PRIOR FILING DATE: February 11, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: February 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/05841
; PRIOR FILING DATE: March 2, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/08439
; PRIOR FILING DATE: March 30, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/14042
; PRIOR FILING DATE: May 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/20710
; PRIOR FILING DATE: July 28, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/32678
; PRIOR FILING DATE: December 1, 2000
; PRIOR APPLICATION NUMBER: PCT/US01/06520
; PRIOR FILING DATE: February 28, 2001
; NUMBER OF SEQ ID NOS: 120
; SEQ ID NO 61
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-945-015-61

Query Match 94.3%; Score 417; DB 9; Length 440;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 26 LRLLLLLFSAALIPITGQGNLFTKDVTVIEGEVATISQVKNKSDSDSVIQLLNPNRTIY 85
Db 24 LRLLLLLFSAALIPITGQGNLFTKDVTVIEGEVATISQVKNKSDSDSVIQLLNPNRTIY 83
Qy 86 FRDFRPLKDSRFQLLNPFSSSELKVSITNVSISDEGRYFCOLYTDPPQESYTTITVLVPPR 145
Db 84 FRDFRPLKDSRFQLLNPFSSSELKVSITNVSISDEGRYFCOLYTDPPQESYTTITVLVPPR 143
Qy 146 NLMDIQKDTAVEGEEIEVNCNTAMASKPATTTISWFKGNTLCKGSEVEESDMYTVTSOL 205
Db 144 NLMDIQKDTAVEGEEIEVNCNTAMASKPATTTISWFKGNTLCKGSEVEESDMYTVTSOL 203
Qy 206 MLKVHKKDDGVPVLCQVEHPAVTGNLTQRYLEVOYKPOVHIQMTYPLQSLTREGDALEL 265
Db 204 MLKVHKKDDGVPVLCQVEHPAVTGNLTQRYLEVOYKPOVHIQMTYPLQSLTREGDALEL 263
Qy 266 TCEAIGKQPQPMVWTVRVDDEMPQHAVLSGPNLFINNLTNDGTGYRCEASNIVGKAHSD 325

[illegible]

RESULT 17

US-09-944-396-61

Sequence 61, Application US/09944396
Patent No. US20020132981A1
GENERAL INFORMATION:
APPLICANT: Baker, Kevin
APPLICANT: Botstein, David
APPLICANT: Eaton, Dan
APPLICANT: Ferrara, Napoleone
APPLICANT: Filvaroff, Ellen
APPLICANT: Gerriksen, Mary
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul
APPLICANT: Grimaldi, Christopher
APPLICANT: Gurney, Austin
APPLICANT: Hillan, Kenneth
APPLICANT: Kljavin, Ivar
APPLICANT: Napier, Mary
APPLICANT: Roy, Margaret
APPLICANT: Tumas, Daniel
APPLICANT: Wood, William

TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
ACIDS ENCODING THE SAME
FILE REFERENCE: P2548P1C1
CURRENT APPLICATION NUMBER: US/09/944,396
CURRENT FILING DATE: 2001-09-26
PRIORITY APPLICATION NUMBER: 09/866,028
PRIORITY FILING DATE: 2001-05-25
PRIORITY APPLICATION NUMBER: 60/067,411
PRIORITY FILING DATE: December 3, 1997
PRIORITY APPLICATION NUMBER: 60/069,334
PRIORITY FILING DATE: December 11, 1997
PRIORITY APPLICATION NUMBER: 60/069,335
PRIORITY FILING DATE: December 11, 1997
PRIORITY APPLICATION NUMBER: 60/069,278
PRIORITY FILING DATE: December 11, 1997
PRIORITY APPLICATION NUMBER: 60/069,425
PRIORITY FILING DATE: December 12, 1997
PRIORITY APPLICATION NUMBER: 60/069,696
PRIORITY FILING DATE: December 16, 1997
PRIORITY APPLICATION NUMBER: 60/069,694
PRIORITY FILING DATE: December 16, 1997
PRIORITY APPLICATION NUMBER: 60/069,702
PRIORITY FILING DATE: December 16, 1997
PRIORITY APPLICATION NUMBER: 60/069,870
PRIORITY FILING DATE: December 17, 1997
PRIORITY APPLICATION NUMBER: 60/069,873
PRIORITY FILING DATE: December 17, 1997
PRIORITY APPLICATION NUMBER: 60/068,017
PRIORITY FILING DATE: December 18, 1997
PRIORITY APPLICATION NUMBER: 60/070,440
PRIORITY FILING DATE: January 5, 1998
PRIORITY APPLICATION NUMBER: 60/074,086
PRIORITY FILING DATE: February 9, 1998
PRIORITY APPLICATION NUMBER: 60/074,092
PRIORITY FILING DATE: February 9, 1998
PRIORITY APPLICATION NUMBER: 60/075,945
PRIORITY FILING DATE: February 25, 1998
PRIORITY APPLICATION NUMBER: 60/112,850
PRIORITY FILING DATE: December 16, 1998
PRIORITY APPLICATION NUMBER: 60/113,296


```
Db 384 FAMLCLLIILGRYFARHKGTGYFTHAEKGAADAAADATTAIINAEAGGQNNSEKKEYFI 440
|||||
RESULT 19
US-09-943-762-61
; Sequence 61, Application US/09943762
; Patent No. US20020142958A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin
; APPLICANT: Botstein, David
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gerriksen, Mary
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul
; APPLICANT: Grimaldi, Christopher
; APPLICANT: Gurney, Austin
; APPLICANT: Hillan, Kenneth
; APPLICANT: Kljavin, Ivar
; APPLICANT: Napier, Mary
; APPLICANT: Roy, Margaret
; APPLICANT: Tumas, Daniel
; APPLICANT: Wood, William
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P2548P1C1
; CURRENT APPLICATION NUMBER: US/09/943,762
; CURRENT FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: 09/866,028
; PRIOR FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: 60/067,411
; PRIOR FILING DATE: December 3, 1997
; PRIOR APPLICATION NUMBER: 60/069,334
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,335
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,278
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,425
; PRIOR FILING DATE: December 12, 1997
; PRIOR APPLICATION NUMBER: 60/069,696
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,694
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,702
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,870
; PRIOR FILING DATE: December 17, 1997
; PRIOR APPLICATION NUMBER: 60/069,873
; PRIOR FILING DATE: December 17, 1997
; PRIOR APPLICATION NUMBER: 60/068,017
; PRIOR FILING DATE: December 18, 1997
; PRIOR APPLICATION NUMBER: 60/070,440
; PRIOR FILING DATE: January 5, 1998
; PRIOR APPLICATION NUMBER: 60/074,086
; PRIOR FILING DATE: February 9, 1998
; PRIOR APPLICATION NUMBER: 60/074,092
; PRIOR FILING DATE: February 9, 1998
; PRIOR APPLICATION NUMBER: 60/075,945
; PRIOR FILING DATE: February 25, 1998
; PRIOR APPLICATION NUMBER: 60/112,850
; PRIOR FILING DATE: December 16, 1998
; PRIOR APPLICATION NUMBER: 60/113,296
; PRIOR FILING DATE: December 22, 1998
; PRIOR APPLICATION NUMBER: 60/146,222
; PRIOR FILING DATE: July 28, 1999
; PRIOR APPLICATION NUMBER: PCT/US98/19330
; PRIOR FILING DATE: September 16, 1998
; PRIOR APPLICATION NUMBER: PCT/US98/25108
; PRIOR FILING DATE: December 1, 1998
; PRIOR APPLICATION NUMBER: 09/216,021
```

```
; PRIOR FILING DATE: December 16, 1998
; PRIOR APPLICATION NUMBER: 09/218,517
; PRIOR FILING DATE: December 22, 1998
; PRIOR APPLICATION NUMBER: 09/254,311
; PRIOR FILING DATE: March 3, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/12252
; PRIOR FILING DATE: June 22, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: September 15, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28409
; PRIOR FILING DATE: No. US20020142958A1ember 30, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: No. US20020142958A1ember 30, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28301
; PRIOR FILING DATE: December 1, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: December 16, 1999
; PRIOR APPLICATION NUMBER: PCT/US00/03565
; PRIOR FILING DATE: February 11, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: February 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/05841
; PRIOR FILING DATE: March 2, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/08439
; PRIOR FILING DATE: March 30, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/14042
; PRIOR FILING DATE: May 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/20710
; PRIOR FILING DATE: July 28, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/32678
; PRIOR FILING DATE: December 1, 2000
; PRIOR APPLICATION NUMBER: PCT/US01/06520
; PRIOR FILING DATE: February 28, 2001
; NUMBER OF SEQ ID NOS: 120
; SEQ ID NO 61
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-943-762-61
```

```
Query Match 94.3%; Score 417; DB 9; Length 440;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 26 LRLLLLFSAAALIPGTGQNLFTKDVTVIEGVATISQVKNKSDSDSVIQLNPNRQTIY 85
Db 24 LRLLLLFSAAALIPGTGQNLFTKDVTVIEGVATISQVKNKSDSDSVIQLNPNRQTIY 83
Qy 86 FRDFRPLKDSRFQLLNFSSELKVSILTNVSIISDEGRYFCQLYTDPPEQESYTTITVLVPPR 145
Db 84 FRDFRPLKDSRFQLLNFSSELKVSILTNVSIISDEGRYFCQLYTDPPEQESYTTITVLVPPR 143
Qy 146 NLMIDIQKDTAVEGESIEVNCNTAMASKPATITIRWPKGNTTELKSKSEVEEWSDMYTVTSOL 205
Db 144 NLMIDIQKDTAVEGESIEVNCNTAMASKPATITIRWPKGNTTELKSKSEVEEWSDMYTVTSOL 203
Qy 206 MLKVKHEDDGVPICOVEHPAVTGNLQTORYLEVQYKPOVHIQMTYPLQGLTREGDALEL 265
Db 204 MLKVKHEDDGVPICOVEHPAVTGNLQTORYLEVQYKPOVHIQMTYPLQGLTREGDALEL 263
Qy 266 TCEAIGKQPQPMVMTWVRVDDMPQHAVLSGPNLFINLNKNTDNGTYRCEASNIVGKAHSD 325
Db 264 TCEAIGKQPQPMVMTWVRVDDMPQHAVLSGPNLFINLNKNTDNGTYRCEASNIVGKAHSD 323
Qy 326 YMLYVYDPPPTTIPPPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 385
Db 324 YMLYVYDPPPTTIPPPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 383
Qy 386 FAMLCLLIILGRYFARHKGTGYFTHAEKGAADAAADATTAIINAEAGGQNNSEKKEYFI 442
Db 384 FAMLCLLIILGRYFARHKGTGYFTHAEKGAADAAADATTAIINAEAGGQNNSEKKEYFI 440
```


RESULT 20

US-09-944-654-61
; Sequence 61, Application US/09944654
; Patent No. US20020142959A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin
; APPLICANT: Botstein, David
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Goddard, Audrey
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul
; APPLICANT: Grimaldi, Christopher
; APPLICANT: Gurney, Austin
; APPLICANT: Hillan, Kenneth
; APPLICANT: Kijavlin, Ivar
; APPLICANT: Napier, Mary
; APPLICANT: Roy, Margaret
; APPLICANT: Tumas, Daniel
; APPLICANT: Wood, William
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; TITLE OF INVENTION: ACIDS ENCODING THE SAME
; FILE REFERENCE: P2549P1C1
; CURRENT APPLICATION NUMBER: US/09/944,654
; CURRENT FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: 09/866,028
; PRIOR FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: 60/067,411
; PRIOR FILING DATE: December 3, 1997
; PRIOR APPLICATION NUMBER: 60/069,334
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,335
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,278
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,425
; PRIOR FILING DATE: December 12, 1997
; PRIOR APPLICATION NUMBER: 60/069,696
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,694
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,873
; PRIOR FILING DATE: December 17, 1997
; PRIOR APPLICATION NUMBER: 60/069,702
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/068,017
; PRIOR FILING DATE: December 18, 1997
; PRIOR APPLICATION NUMBER: 60/070,440
; PRIOR FILING DATE: January 5, 1998
; PRIOR APPLICATION NUMBER: 60/074,086
; PRIOR FILING DATE: February 9, 1998
; PRIOR APPLICATION NUMBER: 60/074,092
; PRIOR FILING DATE: February 9, 1998
; PRIOR APPLICATION NUMBER: 60/075,945
; PRIOR FILING DATE: February 25, 1998
; PRIOR APPLICATION NUMBER: 60/112,850
; PRIOR FILING DATE: December 16, 1998
; PRIOR APPLICATION NUMBER: 60/113,296
; PRIOR FILING DATE: December 22, 1998
; PRIOR APPLICATION NUMBER: 60/146,222
; PRIOR FILING DATE: July 28, 1999
; PRIOR APPLICATION NUMBER: PCT/US98/19330
; PRIOR FILING DATE: September 16, 1998
; PRIOR APPLICATION NUMBER: PCT/US98/25108
; PRIOR FILING DATE: December 1, 1998
; PRIOR APPLICATION NUMBER: 09/216,021
; PRIOR FILING DATE: December 16, 1998
; PRIOR APPLICATION NUMBER: 09/218,517
; PRIOR FILING DATE: December 22, 1998
; PRIOR APPLICATION NUMBER: 09/254,311

; PRIOR FILING DATE: March 3, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/12252
; PRIOR FILING DATE: June 22, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: September 15, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28409
; PRIOR FILING DATE: No. US20020142959A1ember 30, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: No. US20020142959A1ember 30, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28301
; PRIOR FILING DATE: December 1, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: December 16, 1999
; PRIOR APPLICATION NUMBER: PCT/US00/03565
; PRIOR FILING DATE: February 11, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: February 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/05841
; PRIOR FILING DATE: March 2, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/08439
; PRIOR FILING DATE: March 30, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/14042
; PRIOR FILING DATE: May 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/20710
; PRIOR FILING DATE: July 28, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/32678
; PRIOR FILING DATE: December 1, 2000
; PRIOR APPLICATION NUMBER: PCT/US01/06520
; PRIOR FILING DATE: February 28, 2001
; NUMBER OF SEQ ID NOS: 120
; SEQ ID NO 61
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-944-654-61

Query Match 94.3%; Score 417; DB 9; Length 440;

Best Local Similarity 100.0%; Pred. No. 0;
Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

| | | | |
|----|-----|--|-----|
| Qy | 26 | LRLLLLLSAALIPTGDGQNLFTKDVTVIEGEVATISQVKNKSDSDSVIQLLNPNRTIY | 85 |
| Db | 24 | LRLLLLLSAALIPTGDGQNLFTKDVTVIEGEVATISQVKNKSDSDSVIQLLNPNRTIY | 83 |
| Qy | 86 | FRDRLKDSRFQLLNFSSELKVSITNVSISDEGRYFCOLYTDPPQESYTTITVLVPPR | 145 |
| Db | 84 | FRDRLKDSRFQLLNFSSELKVSITNVSISDEGRYFCOLYTDPPQESYTTITVLVPPR | 143 |
| Qy | 146 | NLMIDIKDTAVEGEEIEVNCNTAMASKPATITIRFWKNTLKGKSEVEESDMYVTVSOL | 205 |
| Db | 144 | NLMIDIKDTAVEGEEIEVNCNTAMASKPATITIRFWKNTLKGKSEVEESDMYVTVSOL | 203 |
| Qy | 206 | MLKVHKEDDGPVVICQVEHPAVTGNLQRYLYEVQYKPVHIQMTYPLQGLTREGDALEL | 265 |
| Db | 204 | MLKVHKEDDGPVVICQVEHPAVTGNLQRYLYEVQYKPVHIQMTYPLQGLTREGDALEL | 263 |
| Qy | 266 | TCEAIGKPPQVMTWVRVDDMPQHAVLSGNPLFINNLTNGTYRCEASNIIVGKAHSD | 325 |
| Db | 264 | TCEAIGKPPQVMTWVRVDDMPQHAVLSGNPLFINNLTNGTYRCEASNIIVGKAHSD | 323 |
| Qy | 326 | YMLVYVDPPTTIPPTTT | 385 |
| Db | 324 | YMLVYVDPPTTIPPTTT | 383 |
| Qy | 386 | FAMLCLLIILGRYFARHKGTYFTHEAKGADDAADATATINAEQQNNSEKKEYFI | 442 |
| Db | 384 | FAMLCLLIILGRYFARHKGTYFTHEAKGADDAADATATINAEQQNNSEKKEYFI | 440 |

RESULT 21

US-09-943-851A-61
; Sequence 61, Application US/09943851A
; Patent No. US20020150976A1

;; GENERAL INFORMATION:
;; APPLICANT: Baker, Kevin
;; APPLICANT: Botstein, David
;; APPLICANT: Eaton, Dan
;; APPLICANT: Ferrara, Napoleone
;; APPLICANT: Filvaroff, Ellen
;; APPLICANT: Gerriksen, Mary
;; APPLICANT: Goddard, Audrey
;; APPLICANT: Godowski, Paul
;; APPLICANT: Grimaldi, Christopher
;; APPLICANT: Gurney, Austin
;; APPLICANT: Hillan, Kenneth
;; APPLICANT: Kljavin, Ivar
;; APPLICANT: Napier, Mary
;; APPLICANT: Roy, Margaret
;; APPLICANT: Tumas, Daniel
;; APPLICANT: Wood, William
;; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
;; TITLE OF INVENTION: ACIDS ENCODING THE SAME
;; FILE REFERENCE: P2548P1C1
;; CURRENT FILING DATE: 2001-05-25
;; PRIOR APPLICATION NUMBER: US/09/943,851A
;; PRIOR FILING DATE: 2001-05-25
;; PRIOR APPLICATION NUMBER: 60/067,411
;; PRIOR FILING DATE: December 3, 1997
;; PRIOR APPLICATION NUMBER: 60/069,334
;; PRIOR FILING DATE: December 11, 1997
;; PRIOR APPLICATION NUMBER: 60/069,335
;; PRIOR FILING DATE: December 11, 1997
;; PRIOR APPLICATION NUMBER: 60/069,278
;; PRIOR FILING DATE: December 11, 1997
;; PRIOR APPLICATION NUMBER: 60/069,425
;; PRIOR FILING DATE: December 12, 1997
;; PRIOR APPLICATION NUMBER: 60/069,696
;; PRIOR FILING DATE: December 16, 1997
;; PRIOR APPLICATION NUMBER: 60/069,694
;; PRIOR FILING DATE: December 16, 1997
;; PRIOR APPLICATION NUMBER: 60/069,702
;; PRIOR FILING DATE: December 16, 1997
;; PRIOR APPLICATION NUMBER: 60/068,017
;; PRIOR FILING DATE: December 18, 1997
;; PRIOR APPLICATION NUMBER: 60/070,440
;; PRIOR FILING DATE: January 5, 1998
;; PRIOR APPLICATION NUMBER: 60/074,086
;; PRIOR FILING DATE: February 9, 1998
;; PRIOR APPLICATION NUMBER: 60/074,092
;; PRIOR FILING DATE: February 9, 1998
;; PRIOR APPLICATION NUMBER: 60/075,945
;; PRIOR FILING DATE: February 25, 1998
;; PRIOR APPLICATION NUMBER: 60/112,850
;; PRIOR FILING DATE: December 16, 1998
;; PRIOR APPLICATION NUMBER: 60/113,296
;; PRIOR FILING DATE: December 22, 1998
;; PRIOR APPLICATION NUMBER: 60/146,222
;; PRIOR FILING DATE: July 28, 1999
;; PRIOR APPLICATION NUMBER: PCT/US98/19330
;; PRIOR FILING DATE: September 16, 1998
;; PRIOR APPLICATION NUMBER: PCT/US98/25108
;; PRIOR FILING DATE: December 1, 1998
;; PRIOR APPLICATION NUMBER: 09/216,021
;; PRIOR FILING DATE: December 16, 1998
;; PRIOR APPLICATION NUMBER: 09/218,517
;; PRIOR FILING DATE: December 22, 1998
;; PRIOR APPLICATION NUMBER: 09/254,311
;; PRIOR FILING DATE: March 3, 1999
;; PRIOR APPLICATION NUMBER: PCT/US99/12252
;; PRIOR FILING DATE: June 22, 1999
;; PRIOR APPLICATION NUMBER: PCT/US99/21090

;; PRIOR FILING DATE: September 15, 1999
;; PRIOR APPLICATION NUMBER: PCT/US99/28409
;; PRIOR FILING DATE: No. US20020150976A1ember 30, 1999
;; PRIOR APPLICATION NUMBER: PCT/US99/28313
;; PRIOR FILING DATE: No. US20020150976A1ember 30, 1999
;; PRIOR APPLICATION NUMBER: PCT/US99/28301
;; PRIOR FILING DATE: December 1, 1999
;; PRIOR APPLICATION NUMBER: PCT/US99/30095
;; PRIOR FILING DATE: December 16, 1999
;; PRIOR APPLICATION NUMBER: PCT/US00/03565
;; PRIOR FILING DATE: February 11, 2000
;; PRIOR APPLICATION NUMBER: PCT/US00/04414
;; PRIOR FILING DATE: February 22, 2000
;; PRIOR APPLICATION NUMBER: PCT/US00/05841
;; PRIOR FILING DATE: March 2, 2000
;; PRIOR APPLICATION NUMBER: PCT/US00/08439
;; PRIOR FILING DATE: March 30, 2000
;; PRIOR APPLICATION NUMBER: PCT/US00/14042
;; PRIOR FILING DATE: May 22, 2000
;; PRIOR APPLICATION NUMBER: PCT/US00/20710
;; PRIOR FILING DATE: July 28, 2000
;; PRIOR APPLICATION NUMBER: PCT/US00/32678
;; PRIOR FILING DATE: December 1, 2000
;; PRIOR APPLICATION NUMBER: PCT/US01/06520
;; PRIOR FILING DATE: February 28, 2001
;; NUMBER OF SEQ ID NOS: 120
;; SEQ ID NO 61
;; LENGTH: 440
;; TYPE: PRT
;; ORGANISM: Homo Sapien
US-09-943-851A-61

Query Match 94.3%; Score 417; DB 9; Length 440;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 26 LRLLLLLFSAALIPITGDCGNLFTKDVTVIEGEVATISQVKNKSDSDSVIQLLNPRTIY 85
DB 24 LRLLLLLFSAALIPITGDCGNLFTKDVTVIEGEVATISQVKNKSDSDSVIQLLNPRTIY 83

QY 86 FRDRLKDSRFOLLNFSSELKVSILTNVSIISDEGRYFCOLYTDPPQESYTTITVLVPPR 145
DB 84 FRDRLKDSRFOLLNFSSELKVSILTNVSIISDEGRYFCOLYTDPPQESYTTITVLVPPR 143

QY 146 NLMDIQKDTAVEGEEIEVNTAMASKPATIRWFKGNTLKGKSEVEEWSDMYTVTSOL 205
DB 144 NLMDIQKDTAVEGEEIEVNTAMASKPATIRWFKGNTLKGKSEVEEWSDMYTVTSOL 203

QY 206 MLKVHKEDDGPVICQVEHPAVTGNLQTRYLEVQYKQVHIQMTYPLQGLTREGDALEL 265
DB 204 MLKVHKEDDGPVICQVEHPAVTGNLQTRYLEVQYKQVHIQMTYPLQGLTREGDALEL 263

QY 266 TCEAIGKQPQVMVTVYRVDDEMPQHAVLSGPNLFINNLKNTDNGTYRCEASNIVGKAHSD 325
DB 264 TCEAIGKQPQVMVTVYRVDDEMPQHAVLSGPNLFINNLKNTDNGTYRCEASNIVGKAHSD 323

QY 326 YMLYVYDPPPTTIPPTTT 385
DB 324 YMLYVYDPPPTTIPPTTT 383

QY 386 FAMLCLLIILGRYFARHKGTYFTHEAKGADDAADADTAIINAEQQNNSEKKEYFI 442
DB 384 FAMLCLLIILGRYFARHKGTYFTHEAKGADDAADADTAIINAEQQNNSEKKEYFI 440

RESULT 22
US-09-944-413-61
; Sequence 61, Application US/09944413
; Patent No. US20020156004A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin
; APPLICANT: Botstein, David
; APPLICANT: Eaton, Dan

APPLICANT: Ferrata, Napoleone
APPLICANT: Filvaroff, Ellen
APPLICANT: Gerritsen, Mary
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul
APPLICANT: Grimaldi, Christopher
APPLICANT: Gurney, Austin
APPLICANT: Hillan, Kenneth
APPLICANT: Kljavin, Ivar
APPLICANT: Napier, Mary
APPLICANT: Roy, Margaret
APPLICANT: Tumas, Daniel
APPLICANT: Wood, William
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
TITLE OF INVENTION: ACIDS ENCODING THE SAME
FILE REFERENCE: P2548PICI
CURRENT APPLICATION NUMBER: US/09/944,413
CURRENT FILING DATE: 2001-09-26
PRIOR APPLICATION NUMBER: 09/866,028
PRIOR FILING DATE: 2001-05-25
PRIOR APPLICATION NUMBER: 60/067,411
PRIOR FILING DATE: December 3, 1997
PRIOR APPLICATION NUMBER: 60/069,334
PRIOR FILING DATE: December 11, 1997
PRIOR APPLICATION NUMBER: 60/069,335
PRIOR FILING DATE: December 11, 1997
PRIOR APPLICATION NUMBER: 60/069,278
PRIOR FILING DATE: December 11, 1997
PRIOR APPLICATION NUMBER: 60/069,425
PRIOR FILING DATE: December 12, 1997
PRIOR APPLICATION NUMBER: 60/069,696
PRIOR FILING DATE: December 16, 1997
PRIOR APPLICATION NUMBER: 60/069,694
PRIOR FILING DATE: December 16, 1997
PRIOR APPLICATION NUMBER: 60/069,702
PRIOR FILING DATE: December 16, 1997
PRIOR APPLICATION NUMBER: 60/069,870
PRIOR FILING DATE: December 17, 1997
PRIOR APPLICATION NUMBER: 60/069,873
PRIOR FILING DATE: December 17, 1997
PRIOR APPLICATION NUMBER: 60/068,017
PRIOR FILING DATE: December 18, 1997
PRIOR APPLICATION NUMBER: 60/070,440
PRIOR FILING DATE: January 5, 1998
PRIOR APPLICATION NUMBER: 60/074,086
PRIOR FILING DATE: February 9, 1998
PRIOR APPLICATION NUMBER: 60/074,092
PRIOR FILING DATE: February 9, 1998
PRIOR APPLICATION NUMBER: 60/075,945
PRIOR FILING DATE: February 25, 1998
PRIOR APPLICATION NUMBER: 60/112,850
PRIOR FILING DATE: December 16, 1998
PRIOR APPLICATION NUMBER: 60/113,296
PRIOR FILING DATE: December 22, 1998
PRIOR APPLICATION NUMBER: 60/146,222
PRIOR FILING DATE: July 28, 1999
PRIOR APPLICATION NUMBER: PCT/US98/19330
PRIOR FILING DATE: September 16, 1998
PRIOR APPLICATION NUMBER: PCT/US98/25108
PRIOR FILING DATE: December 1, 1998
PRIOR APPLICATION NUMBER: 09/216,021
PRIOR FILING DATE: December 16, 1998
PRIOR APPLICATION NUMBER: 09/218,517
PRIOR FILING DATE: December 22, 1998
PRIOR APPLICATION NUMBER: 09/254,311
PRIOR FILING DATE: March 3, 1999
PRIOR APPLICATION NUMBER: PCT/US99/12252
PRIOR FILING DATE: June 22, 1999
PRIOR APPLICATION NUMBER: PCT/US99/21090
PRIOR FILING DATE: September 15, 1999
PRIOR APPLICATION NUMBER: PCT/US99/28409
PRIOR FILING DATE: No. US20020156004A1ember 30, 1999
PRIOR APPLICATION NUMBER: PCT/US99/28313

PRIOR FILING DATE: No. US20020156004A1ember 30, 1999
PRIOR APPLICATION NUMBER: PCT/US99/28301
PRIOR FILING DATE: December 1, 1999
PRIOR APPLICATION NUMBER: PCT/US99/30095
PRIOR FILING DATE: December 16, 1999
PRIOR APPLICATION NUMBER: PCT/US00/03565
PRIOR FILING DATE: February 11, 2000
PRIOR APPLICATION NUMBER: PCT/US00/04414
PRIOR FILING DATE: February 22, 2000
PRIOR APPLICATION NUMBER: PCT/US00/05841
PRIOR FILING DATE: March 2, 2000
PRIOR APPLICATION NUMBER: PCT/US00/08439
PRIOR FILING DATE: March 30, 2000
PRIOR APPLICATION NUMBER: PCT/US00/14042
PRIOR FILING DATE: May 22, 2000
PRIOR APPLICATION NUMBER: PCT/US00/20710
PRIOR FILING DATE: July 28, 2000
PRIOR APPLICATION NUMBER: PCT/US00/32678
PRIOR FILING DATE: December 1, 2000
PRIOR APPLICATION NUMBER: PCT/US01/06520
PRIOR FILING DATE: February 28, 2001
NUMBER OF SEQ ID NOS: 120
SEQ ID NO 61
LENGTH: 440
TYPE: PRT
ORGANISM: Homo Sapien
US-09-944-413-61
Query Match 94.3%; Score 417; DB 9; Length 440;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 26 LRLLLLFSAALIPGTGQNLFTKDVTVTEGEVATISQVKNKSDSDSVIQLLNPRTIY 85
Db 24 LRLLLLFSAALIPGTGQNLFTKDVTVTEGEVATISQVKNKSDSDSVIQLLNPRTIY 83
Qy 86 FRDPRPKDSRFQLLNFSSSELKVSITNVSISDEGRYFCOLYTDPPQESYTTITVLVPPR 145
Db 84 FRDPRPKDSRFQLLNFSSSELKVSITNVSISDEGRYFCOLYTDPPQESYTTITVLVPPR 143
Qy 146 NLMDIQKOTAVEGEIEVNVCTAMASKPATITIRFWKGNTELKKGSEVEESDMYTVTSOL 205
Db 144 NLMDIQKOTAVEGEIEVNVCTAMASKPATITIRFWKGNTELKKGSEVEESDMYTVTSOL 203
Qy 206 MLKVHKEDGVPVICQVEHPAVTGNLQTORLYEVQYKPVHIQMTYPLQGLTREGDALEL 265
Db 204 MLKVHKEDGVPVICQVEHPAVTGNLQTORLYEVQYKPVHIQMTYPLQGLTREGDALEL 263
Qy 266 TCEAIGKQPQVMTWVRVDDMPQHAVLSGPNLFINNKNKTNGTYRCEASNIVGKAHSD 325
Db 264 TCEAIGKQPQVMTWVRVDDMPQHAVLSGPNLFINNKNKTNGTYRCEASNIVGKAHSD 323
Qy 326 YMLVYVDPPTTIPPTTT 385
Db 324 YMLVYVDPPTTIPPTTT 383
Qy 386 FAMLCLLIILGRYFARHKGTFTHEAKGADDAADATTAIINAEQQNNSEKKEYFI 442
Db 384 FAMLCLLIILGRYFARHKGTFTHEAKGADDAADATTAIINAEQQNNSEKKEYFI 440
RESULT 23
US-09-944-403-61
Sequence 61, Application US/09944403
Patent No. US20020165143A1
GENERAL INFORMATION:
APPLICANT: Baker, Kevin
APPLICANT: Botstein, David
APPLICANT: Eaton, Dan
APPLICANT: Ferrara, Napoleone
APPLICANT: Filvaroff, Ellen
APPLICANT: Gerritsen, Mary
APPLICANT: Goddard, Audrey

```

; APPLICANT: Godowski, Paul
; APPLICANT: Grimaldi, Christopher
; APPLICANT: Gurney, Austin
; APPLICANT: Hillan, Kenneth
; APPLICANT: Kljavin, Ivar
; APPLICANT: Napier, Mary
; APPLICANT: Roy, Margaret
; APPLICANT: Tomas, Daniel
; APPLICANT: Wood, William
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; TITLE OF INVENTION: ACIDS ENCODING THE SAME
; FILE REFERENCE: P2548PIC1
; CURRENT APPLICATION NUMBER: US/09/944,403
; CURRENT FILING DATE: 2001-09-26
; PRIOR FILING DATE: 09/866,028
; PRIOR FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: 60/067,411
; PRIOR FILING DATE: December 3, 1997
; PRIOR APPLICATION NUMBER: 60/069,334
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,335
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,278
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,425
; PRIOR FILING DATE: December 12, 1997
; PRIOR APPLICATION NUMBER: 60/069,696
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,694
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,702
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,870
; PRIOR FILING DATE: December 17, 1997
; PRIOR APPLICATION NUMBER: 60/069,873
; PRIOR FILING DATE: December 17, 1997
; PRIOR APPLICATION NUMBER: 60/068,017
; PRIOR FILING DATE: December 18, 1997
; PRIOR APPLICATION NUMBER: 60/070,440
; PRIOR FILING DATE: January 5, 1998
; PRIOR APPLICATION NUMBER: 60/074,086
; PRIOR FILING DATE: February 9, 1998
; PRIOR APPLICATION NUMBER: 60/074,092
; PRIOR FILING DATE: February 9, 1998
; PRIOR APPLICATION NUMBER: 60/075,945
; PRIOR FILING DATE: February 25, 1998
; PRIOR APPLICATION NUMBER: 60/112,850
; PRIOR FILING DATE: December 16, 1998
; PRIOR APPLICATION NUMBER: 60/113,296
; PRIOR FILING DATE: December 22, 1998
; PRIOR APPLICATION NUMBER: 60/146,222
; PRIOR FILING DATE: July 28, 1999
; PRIOR APPLICATION NUMBER: PCT/US98/19330
; PRIOR FILING DATE: September 16, 1998
; PRIOR APPLICATION NUMBER: PCT/US98/25108
; PRIOR FILING DATE: December 1, 1998
; PRIOR APPLICATION NUMBER: 09/216,021
; PRIOR FILING DATE: December 16, 1998
; PRIOR APPLICATION NUMBER: 09/218,517
; PRIOR FILING DATE: December 22, 1998
; PRIOR APPLICATION NUMBER: 09/254,311
; PRIOR FILING DATE: March 3, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/12252
; PRIOR FILING DATE: June 22, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: September 15, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28409
; PRIOR FILING DATE: No. US20020165143A1ember 30, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: No. US20020165143A1ember 30, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28301
; PRIOR FILING DATE: December 1, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/30095

```

```

; PRIOR FILING DATE: December 16, 1999
; PRIOR APPLICATION NUMBER: PCT/US00/03565
; PRIOR FILING DATE: February 11, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: February 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/05841
; PRIOR FILING DATE: March 2, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/08439
; PRIOR FILING DATE: March 30, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/14042
; PRIOR FILING DATE: May 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/20710
; PRIOR FILING DATE: July 28, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/32678
; PRIOR FILING DATE: December 1, 2000
; PRIOR APPLICATION NUMBER: PCT/US01/06520
; PRIOR FILING DATE: February 28, 2001
; NUMBER OF SEQ ID NOS: 120
; SEQ ID NO 61
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
; US-09-944-403-61

Query Match      94.3%; Score 417; DB 9; Length 440;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 26 LRLLLLFSAAALIPGTGQNLFTKDVTVIEGVATISQVKNKSDSVIQLLNPRTIY 85
DB 24 LRLLLLFSAAALIPGTGQNLFTKDVTVIEGVATISQVKNKSDSVIQLLNPRTIY 83
QY 86 FRDFRPLKDSRFOLLNFSSELKVSITNVSISDEGRYFCOLYTDPPQESYTTITVLVPPR 145
DB 84 FRDFRPLKDSRFOLLNFSSELKVSITNVSISDEGRYFCOLYTDPPQESYTTITVLVPPR 143
QY 146 NLMIDIQKDTAVEGEIEVNCCTAMASKPATTTIRWFKGNTLKGKSEVEEWSDMYTVTSQ 205
DB 144 NLMIDIQKDTAVEGEIEVNCCTAMASKPATTTIRWFKGNTLKGKSEVEEWSDMYTVTSQ 203
QY 206 MLKVHKEDDGVVICQVEHPAVTGNLQTORILEYVQKPVHIOQMTYPLQGLTREGDALEL 265
DB 204 MLKVHKEDDGVVICQVEHPAVTGNLQTORILEYVQKPVHIOQMTYPLQGLTREGDALEL 263
QY 266 TCEAIGKQPQVWVTVVRVDEMPQHAVLSGPNLFINLNKTDNGTYRCEASNIVGKAHSD 325
DB 264 TCEAIGKQPQVWVTVVRVDEMPQHAVLSGPNLFINLNKTDNGTYRCEASNIVGKAHSD 323
QY 326 YMLYVYDPPPTTIPPPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 385
DB 324 YMLYVYDPPPTTIPPPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 383
QY 386 FAMLCLLIILGRYFARHKGTYFTHEAKGADDAADADATAINAEGGQNNSEKKEYFI 442
DB 384 FAMLCLLIILGRYFARHKGTYFTHEAKGADDAADADATAINAEGGQNNSEKKEYFI 440

RESULT 24
US-09-944-896-61
; Sequence 61, Application US/09944896
; Patent No. US20020168715A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin
; APPLICANT: Botstein, David
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Geritsen, Mary
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul
; APPLICANT: Grimaldi, Christopher
; APPLICANT: Gurney, Austin
; APPLICANT: Hillan, Kenneth

```

```

1  / APPLICANT: Kljavin,Ivar
2  / APPLICANT: Napier,Mary
3  / APPLICANT: Roy,Margaret
4  / APPLICANT: Tumas,Daniel
5  / APPLICANT: Wood,William
6  / TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
7  / FILE REFERENCE: P2548PIC1
8  / CURRENT APPLICATION NUMBER: US/09/944,896
9  / CURRENT FILING DATE: 2001-08-31
10 / PRIOR APPLICATION NUMBER: 09/866,028
11 / PRIOR FILING DATE: 2001-05-25
12 / PRIOR APPLICATION NUMBER: 60/069,334
13 / PRIOR FILING DATE: December 11, 1997
14 / PRIOR APPLICATION NUMBER: 60/069,335
15 / PRIOR FILING DATE: December 11, 1997
16 / PRIOR APPLICATION NUMBER: 60/069,278
17 / PRIOR FILING DATE: December 11, 1997
18 / PRIOR APPLICATION NUMBER: 60/069,425
19 / PRIOR FILING DATE: December 12, 1997
20 / PRIOR APPLICATION NUMBER: 60/069,696
21 / PRIOR FILING DATE: December 16, 1997
22 / PRIOR APPLICATION NUMBER: 60/069,694
23 / PRIOR FILING DATE: December 16, 1997
24 / PRIOR APPLICATION NUMBER: 60/069,702
25 / PRIOR FILING DATE: December 16, 1997
26 / PRIOR APPLICATION NUMBER: 60/069,870
27 / PRIOR FILING DATE: December 17, 1997
28 / PRIOR APPLICATION NUMBER: 60/069,873
29 / PRIOR FILING DATE: December 17, 1997
30 / PRIOR APPLICATION NUMBER: 60/068,017
31 / PRIOR FILING DATE: December 18, 1997
32 / PRIOR APPLICATION NUMBER: 60/070,440
33 / PRIOR FILING DATE: January 5, 1998
34 / PRIOR APPLICATION NUMBER: 60/074,086
35 / PRIOR FILING DATE: February 9, 1998
36 / PRIOR APPLICATION NUMBER: 60/074,092
37 / PRIOR FILING DATE: February 9, 1998
38 / PRIOR APPLICATION NUMBER: 60/075,945
39 / PRIOR FILING DATE: February 25, 1998
40 / PRIOR APPLICATION NUMBER: 60/112,850
41 / PRIOR FILING DATE: December 16, 1998
42 / PRIOR APPLICATION NUMBER: 60/113,296
43 / PRIOR FILING DATE: December 22, 1998
44 / PRIOR APPLICATION NUMBER: 60/146,222
45 / PRIOR FILING DATE: July 28, 1999
46 / PRIOR APPLICATION NUMBER: PCT/US98/19330
47 / PRIOR FILING DATE: September 16, 1998
48 / PRIOR APPLICATION NUMBER: PCT/US98/25108
49 / PRIOR FILING DATE: December 1, 1998
50 / PRIOR APPLICATION NUMBER: 09/216,021
51 / PRIOR FILING DATE: December 16, 1998
52 / PRIOR APPLICATION NUMBER: 09/218,517
53 / PRIOR FILING DATE: December 22, 1998
54 / PRIOR APPLICATION NUMBER: 09/254,311
55 / PRIOR FILING DATE: March 3, 1999
56 / PRIOR APPLICATION NUMBER: PCT/US99/12252
57 / PRIOR FILING DATE: June 22, 1999
58 / PRIOR APPLICATION NUMBER: PCT/US99/21090
59 / PRIOR FILING DATE: September 15, 1999
60 / PRIOR APPLICATION NUMBER: PCT/US99/28409
61 / PRIOR FILING DATE: No. US20020168715A1ember 30, 1999
62 / PRIOR APPLICATION NUMBER: PCT/US99/28313
63 / PRIOR FILING DATE: No. US20020168715A1ember 30, 1999
64 / PRIOR APPLICATION NUMBER: PCT/US99/28301
65 / PRIOR FILING DATE: December 1, 1999
66 / PRIOR APPLICATION NUMBER: PCT/US99/30095
67 / PRIOR FILING DATE: December 16, 1999
68 / PRIOR APPLICATION NUMBER: PCT/US00/03565
69 / PRIOR FILING DATE: February 11, 2000
70 / PRIOR APPLICATION NUMBER: PCT/US00/04414
71 / PRIOR FILING DATE: February 22, 2000
72 / PRIOR APPLICATION NUMBER: PCT/US00/05841

```

```

; PRIOR FILING DATE: March 2, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/08439
; PRIOR FILING DATE: March 30, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/14042
; PRIOR FILING DATE: May 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/20710
; PRIOR FILING DATE: July 28, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/32678
; PRIOR FILING DATE: December 1, 2000
; PRIOR APPLICATION NUMBER: PCT/US01/06520
; PRIOR FILING DATE: February 28, 2001
; NUMBER OF SEQ ID NOS: 120
; SEQ ID NO 61
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-944-896-61

Query Match          94.3%; Score 417; DB 9; Length 440;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      26   LRLLLLFSAAALPTGDBGQLNFTKDVTVIEGEVATISCVWNKSDDSVIOLLNPNRQTIIY 85
Db      24   LRLLLLFSAAALPTGDBGQLNFTKDVTVIEGEVATISCVWNKSDDSVIOLLNPNRQTIIY 83
Qy      86   FRFRPLUKDSRFOLLNFSSSELKVSLTNTVNSISDEGRYFCOLYTDPPOESYTTITVLVPPR 145
Db      84   FRFRPLUKDSRFOLLNFSSSELKVSLTNTVNSISDEGRYFCOLYTDPPOESYTTITVLVPPR 143
Qy     146   NLMDIQDQTAVAGEEIEVNCTAMASKPATTIRWFKGNTLKGKSEVEEWSDMYTVTSQL 205
Db     144   NLMDIQDQTAVAGEEIEVNCTAMASKPATTIRWFKGNTLKGKSEVEEWSDMYTVTSQL 203
Qy     206   MLKVHKEDDGVPVICQVEHPAVTGNLQTORYLEVQVKQPQHIIQMTPYLPGLTREGDALEL 265
Db     204   MLKVHKEDDGVPVICQVEHPAVTGNLQTORYLEVQVKQPQHIIQMTPYLPGLTREGDALEL 263
Qy     266   TCEAIGKPQPMVMTWRVDDEMPOHVLSGPNLFINNLANKTNDNGTYRCEASNIVGKAHSD 325
Db     264   TCEAIGKPQPMVMTWRVDDEMPOHVLSGPNLFINNLANKTNDNGTYRCEASNIVGKAHSD 323
Qy     326   YMLVYVDPPTTIPIPPPTTTTTTTTTTTTTTTTTILITIITDSRAGEEGSIRAVDHAVIGGWAVVV 385
Db     324   YMLVYVDPPTTIPIPPPTTTTTTTTTTTTTTTTTILITIITDSRAGEEGSIRAVDHAVIGGWAVVV 383
Qy     386   FAMLCLLIILGRYFARHGKYFTTHEAKGADDAADAATAIINAEGGQNNSSEKKKEYFI 442
Db     384   FAMLCLLIILGRYFARHGKYFTTHEAKGADDAADAATAIINAEGGQNNSSEKKKEYFI 440

```

```

; PRIOR FILING DATE: March 2, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/08439
; PRIOR FILING DATE: March 30, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/14042
; PRIOR FILING DATE: May 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/20710
; PRIOR FILING DATE: July 28, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/32678
; PRIOR FILING DATE: December 1, 2000
; PRIOR APPLICATION NUMBER: PCT/US01/06520
; PRIOR FILING DATE: February 28, 2001
; NUMBER OF SEQ ID NOS: 120
; SEQ ID NO 61
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-944-896-61

Query Match          94.3%; Score 417; DB 9; Length 440;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 26 LRLLLLLFSAAALPTGDBGQNLFTKDVTVIEGEVATISQVWNKSDSDSVIQLLNPNRQTIY 85
Db 24 LRLLLLLFSAAALPTGDBGQNLFTKDVTVIEGEVATISQVWNKSDSDSVIQLLNPNRQTIY 83
Qy 86 FRDPRPKDSRFOLLNPFSSSELKVSLTNVSISDEGRYFCOLYTDPPQESYTTITVLVPPR 145
Db 84 FRDPRPKDSRFOLLNPFSSSELKVSLTNVSISDEGRYFCOLYTDPPQESYTTITVLVPPR 143
Qy 146 NLMDIQDQTAVGEIEEIVNCTAMASKPATTIRWFKGNTELGKSEVEEWSMDMYTTSQL 205
Db 144 NLMDIQDQTAVGEIEEIVNCTAMASKPATTIRWFKGNTELGKSEVEEWSMDMYTTSQL 203
Qy 206 MLKVHKEDDGPVVICQVEHPAVTGNLQTOYLEVQYKQPQVHIQMTYPLQGLTREGDALEL 265
Db 204 MLKVHKEDDGPVVICQVEHPAVTGNLQTOYLEVQYKQPQVHIQMTYPLQGLTREGDALEL 263
Qy 266 TCEAIGKQPQVMVTVWRVDDMPQHAVLGGPNLFINNLANKTDNGTYRCEASNIVGKAHSD 325
Db 264 TCEAIGKQPQVMVTVWRVDDMPQHAVLGGPNLFINNLANKTDNGTYRCEASNIVGKAHSD 323
Qy 326 YMLVYVDPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 385
Db 324 YMLVYVDPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 383
Qy 386 FAMLCLLIILGRYFARHKGYFTFHEAKGADDAADATAIINAEGGQNNSEKKEYFI 442
Db 384 FAMLCLLIILGRYFARHKGYFTFHEAKGADDAADATAIINAEGGQNNSEKKEYFI 440

```


; PRIOR APPLICATION NUMBER: 09/866,028
; PRIOR FILING DATE: 2001-05-25
; NUMBER OF SEQ ID NOS: 120
; SEQ ID NO 61
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-944-929-61

Query Match 94.3%; Score 417; DB 9; Length 440;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 26 LRLLLLFSAAALPTGQGNLFKDVTVIEGEVATISCVNKSDDSVIQLLPNRTIY 85
DB 24 LRLLLLFSAAALPTGQGNLFKDVTVIEGEVATISCVNKSDDSVIQLLPNRTIY 83
QY 86 FRFRPLKDSRFQNLNFSSELKVSNTNVSISDEGRYFCQLYTDPPOESYTTITVLVPPR 145
DB 84 FRFRPLKDSRFQNLNFSSELKVSNTNVSISDEGRYFCQLYTDPPOESYTTITVLVPPR 143
QY 146 NLMIDIKDTAVEGEEIEVNCNTAMASKPATIRFWKNTLKGKSEVEEWSDMYVTSQ 205
DB 144 NLMIDIKDTAVEGEEIEVNCNTAMASKPATIRFWKNTLKGKSEVEEWSDMYVTSQ 203
QY 206 MLKVHKEDDGPVVCQVEHPAVTGNLTQRYLEVQYKPVHIOQMTYPLQGLTREGDALE 265
DB 204 MLKVHKEDDGPVVCQVEHPAVTGNLTQRYLEVQYKPVHIOQMTYPLQGLTREGDALE 263
QY 266 TCEAIGKQPQVMVTVRVDDEMPQHAVLSGPNLFINNLTNDGTYRCEASNIVGKAHSD 325
DB 264 TCEAIGKQPQVMVTVRVDDEMPQHAVLSGPNLFINNLTNDGTYRCEASNIVGKAHSD 323
QY 326 YMLVYDPTTIPPTTT 385
DB 324 YMLVYDPTTIPPTTT 383
QY 386 FAMLCLLIILGRYPARHKGTFTHEAKGADDAADATTAIINAEQQNNSEKKEYFI 442
DB 384 FAMLCLLIILGRYPARHKGTFTHEAKGADDAADATTAIINAEQQNNSEKKEYFI 440

RESULT 27
US-09-944-907-61
; Sequence 61, Application US/09944907
; Publication No. US20020198147A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin
; APPLICANT: Botstein, David
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gerritsen, Mary
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul
; APPLICANT: Grimaldi, Christopher
; APPLICANT: Gurney, Austin
; APPLICANT: Hillan, Kenneth
; APPLICANT: Kljavin, Ivar
; APPLICANT: Napier, Mary
; APPLICANT: Roy, Margaret
; APPLICANT: Tumas, Daniel
; APPLICANT: Wood, William
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P2548P1C1
; CURRENT APPLICATION NUMBER: US/09/944, 907
; PRIOR FILING DATE: 2001-08-31
; PRIOR APPLICATION NUMBER: 09/866,028
; PRIOR FILING DATE: 2001-05-25
; NUMBER OF SEQ ID NOS: 120
; SEQ ID NO 61
; LENGTH: 440

; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-944-907-61

Query Match 94.3%; Score 417; DB 9; Length 440;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 26 LRLLLLFSAAALPTGQGNLFKDVTVIEGEVATISCVNKSDDSVIQLLPNRTIY 85
DB 24 LRLLLLFSAAALPTGQGNLFKDVTVIEGEVATISCVNKSDDSVIQLLPNRTIY 83
QY 86 FRFRPLKDSRFQNLNFSSELKVSNTNVSISDEGRYFCQLYTDPPOESYTTITVLVPPR 145
DB 84 FRFRPLKDSRFQNLNFSSELKVSNTNVSISDEGRYFCQLYTDPPOESYTTITVLVPPR 143
QY 146 NLMIDIKDTAVEGEEIEVNCNTAMASKPATIRFWKNTLKGKSEVEEWSDMYVTSQ 205
DB 144 NLMIDIKDTAVEGEEIEVNCNTAMASKPATIRFWKNTLKGKSEVEEWSDMYVTSQ 203
QY 206 MLKVHKEDDGPVVCQVEHPAVTGNLTQRYLEVQYKPVHIOQMTYPLQGLTREGDALE 265
DB 204 MLKVHKEDDGPVVCQVEHPAVTGNLTQRYLEVQYKPVHIOQMTYPLQGLTREGDALE 263
QY 266 TCEAIGKQPQVMVTVRVDDEMPQHAVLSGPNLFINNLTNDGTYRCEASNIVGKAHSD 325
DB 264 TCEAIGKQPQVMVTVRVDDEMPQHAVLSGPNLFINNLTNDGTYRCEASNIVGKAHSD 323
QY 326 YMLVYDPTTIPPTTT 385
DB 324 YMLVYDPTTIPPTTT 383
QY 386 FAMLCLLIILGRYPARHKGTFTHEAKGADDAADATTAIINAEQQNNSEKKEYFI 442
DB 384 FAMLCLLIILGRYPARHKGTFTHEAKGADDAADATTAIINAEQQNNSEKKEYFI 440

RESULT 28
US-09-944-884-61
; Sequence 61, Application US/09944884
; Publication No. US20030077698A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin
; APPLICANT: Botstein, David
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gerritsen, Mary
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul
; APPLICANT: Grimaldi, Christopher
; APPLICANT: Gurney, Austin
; APPLICANT: Hillan, Kenneth
; APPLICANT: Kljavin, Ivar
; APPLICANT: Napier, Mary
; APPLICANT: Roy, Margaret
; APPLICANT: Tumas, Daniel
; APPLICANT: Wood, William
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P2548P1C1
; CURRENT APPLICATION NUMBER: US/09/944, 884
; PRIOR FILING DATE: 2001-08-31
; PRIOR APPLICATION NUMBER: 09/866,028
; PRIOR FILING DATE: 2001-05-25
; NUMBER OF SEQ ID NOS: 120
; SEQ ID NO 61
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-944-884-61

Query Match 94.3%; Score 417; DB 10; Length 440;

Prior Application Number: 60/074,092
Prior Filing Date: February 9, 1998
Prior Application Number: 60/075,945
Prior Filing Date: February 25, 1998
Prior Application Number: 60/112,850
Prior Filing Date: December 16, 1998
Prior Application Number: 60/113,296
Prior Filing Date: December 22, 1998
Prior Application Number: 60/146,222
Prior Filing Date: July 28, 1999
Prior Application Number: PCT/US98/19330
Prior Filing Date: September 16, 1998
Prior Application Number: PCT/US98/25108
Prior Filing Date: December 1, 1998
Prior Application Number: 09/216,021
Prior Filing Date: December 16, 1998
Prior Application Number: 09/218,517
Prior Filing Date: December 22, 1998
Prior Application Number: 09/254,311
Prior Filing Date: March 3, 1999
Prior Application Number: PCT/US99/12252
Prior Filing Date: June 22, 1999
Prior Application Number: PCT/US99/21090
Prior Filing Date: September 15, 1999
Prior Application Number: PCT/US99/28409
Prior Filing Date: November 30, 1999
Prior Application Number: PCT/US99/28313
Prior Filing Date: November 30, 1999
Prior Application Number: PCT/US99/28301
Prior Filing Date: December 1, 1999
Prior Application Number: PCT/US99/30095
Prior Filing Date: December 16, 1999
Prior Application Number: PCT/US00/03565
Prior Filing Date: February 11, 2000
Prior Application Number: PCT/US00/04414
Prior Filing Date: February 22, 2000
Prior Application Number: PCT/US00/05841
Prior Filing Date: March 2, 2000
Prior Application Number: PCT/US00/08439
Prior Filing Date: March 30, 2000
Prior Application Number: PCT/US00/14042
Prior Filing Date: May 22, 2000
Prior Application Number: PCT/US00/20710
Prior Filing Date: July 28, 2000
Prior Application Number: PCT/US00/32678
Prior Filing Date: December 1, 2000
Prior Application Number: PCT/US01/06520
Prior Filing Date: February 28, 2001

SEQ ID NO 61
NUMBER OF SEQ ID NOS: 120
LENGTH: 440
TYPE: PRN
ORGANISM: Homo Sapien
US-09-943-664-61

Query Match 94.3%; Score 417; DB 11; Length 440;
Best Local Similarity 100.0%; Pred No. 0;
Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 26 LRLLLLFSAALIPDGNLFTKDVTVIEGEVATISCVNKSDDSVIQLLNPNRQTIIY 85
DB 24 LRLLLLFSAALIPDGNLFTKDVTVIEGEVATISCVNKSDDSVIQLLNPNRQTIIY 83
QY 86 FRDFPKLSRFOLLNFSSSELKVSLTNVISDEGRFCOLYTDPQSYYTITVLVPPR 145
DB 84 FRDFPKLSRFOLLNFSSSELKVSLTNVISDEGRFCOLYTDPQSYYTITVLVPPR 143
QY 146 NLMDIQQDTAVEGEBIEVNCTAMASKPATTTIRWFKGNTELKGKEVEEWSDMVTIVTSOL 205
DB 144 NLMDIQKTAVEGEBIEVNCTAMASKPATTTIRWFKGNTELKGKEVEEWSDMVTIVTSOL 203
QY 206 MLKHKKEDDGVPVICOVEHPAVTGNLQORYLEVOKPQVHIQMTPYLQGUTREGDALEL 265

| | |
|----|-------------------------------------|
| 1 | PRIOR APPLICATION NUMBER: 60/086023 |
| 2 | PRIOR FILING DATE: 1998-05-18 |
| 3 | PRIOR APPLICATION NUMBER: 60/086392 |
| 4 | PRIOR FILING DATE: 1998-05-22 |
| 5 | PRIOR APPLICATION NUMBER: 60/086486 |
| 6 | PRIOR FILING DATE: 1998-05-22 |
| 7 | PRIOR APPLICATION NUMBER: 60/087098 |
| 8 | PRIOR FILING DATE: 1998-05-28 |
| 9 | PRIOR APPLICATION NUMBER: 60/087208 |
| 10 | PRIOR FILING DATE: 1998-05-28 |
| 11 | PRIOR APPLICATION NUMBER: 60/087609 |
| 12 | PRIOR FILING DATE: 1998-06-02 |
| 13 | PRIOR APPLICATION NUMBER: 60/087759 |
| 14 | PRIOR FILING DATE: 1998-06-02 |
| 15 | PRIOR APPLICATION NUMBER: 60/087827 |
| 16 | PRIOR FILING DATE: 1998-06-03 |
| 17 | PRIOR APPLICATION NUMBER: 60/088025 |
| 18 | PRIOR FILING DATE: 1998-06-04 |
| 19 | PRIOR APPLICATION NUMBER: 60/088028 |
| 20 | PRIOR FILING DATE: 1998-06-04 |
| 21 | PRIOR APPLICATION NUMBER: 60/088029 |
| 22 | PRIOR FILING DATE: 1998-06-04 |
| 23 | PRIOR APPLICATION NUMBER: 60/088033 |
| 24 | PRIOR FILING DATE: 1998-06-04 |
| 25 | PRIOR APPLICATION NUMBER: 60/088167 |
| 26 | PRIOR FILING DATE: 1998-06-05 |
| 27 | PRIOR APPLICATION NUMBER: 60/088202 |
| 28 | PRIOR FILING DATE: 1998-06-05 |
| 29 | PRIOR APPLICATION NUMBER: 60/088212 |
| 30 | PRIOR FILING DATE: 1998-06-05 |
| 31 | PRIOR APPLICATION NUMBER: 60/088217 |
| 32 | PRIOR FILING DATE: 1998-06-05 |
| 33 | PRIOR APPLICATION NUMBER: 60/088326 |
| 34 | PRIOR FILING DATE: 1998-06-04 |
| 35 | PRIOR APPLICATION NUMBER: 60/088555 |
| 36 | PRIOR FILING DATE: 1998-06-09 |
| 37 | PRIOR APPLICATION NUMBER: 60/088722 |
| 38 | PRIOR FILING DATE: 1998-06-10 |
| 39 | PRIOR APPLICATION NUMBER: 60/088738 |
| 40 | PRIOR FILING DATE: 1998-06-10 |
| 41 | PRIOR APPLICATION NUMBER: 60/088740 |
| 42 | PRIOR FILING DATE: 1998-06-10 |
| 43 | PRIOR APPLICATION NUMBER: 60/088811 |
| 44 | PRIOR FILING DATE: 1998-06-10 |
| 45 | PRIOR APPLICATION NUMBER: 60/088824 |
| 46 | PRIOR FILING DATE: 1998-06-10 |
| 47 | PRIOR APPLICATION NUMBER: 60/088825 |
| 48 | PRIOR FILING DATE: 1998-06-10 |
| 49 | PRIOR APPLICATION NUMBER: 60/088826 |
| 50 | PRIOR FILING DATE: 1998-06-10 |
| 51 | PRIOR APPLICATION NUMBER: 60/088861 |
| 52 | PRIOR FILING DATE: 1998-06-11 |
| 53 | PRIOR APPLICATION NUMBER: 60/088863 |
| 54 | PRIOR FILING DATE: 1998-06-11 |
| 55 | PRIOR APPLICATION NUMBER: 60/088876 |
| 56 | PRIOR FILING DATE: 1998-06-11 |
| 57 | PRIOR APPLICATION NUMBER: 60/089090 |
| 58 | PRIOR FILING DATE: 1998-06-12 |
| 59 | PRIOR APPLICATION NUMBER: 60/089105 |
| 60 | PRIOR FILING DATE: 1998-06-12 |
| 61 | PRIOR APPLICATION NUMBER: 60/089512 |
| 62 | PRIOR FILING DATE: 1998-06-16 |
| 63 | PRIOR APPLICATION NUMBER: 60/089514 |
| 64 | PRIOR FILING DATE: 1998-06-16 |
| 65 | PRIOR APPLICATION NUMBER: 60/089538 |
| 66 | PRIOR FILING DATE: 1998-06-17 |
| 67 | PRIOR APPLICATION NUMBER: 60/089598 |
| 68 | PRIOR FILING DATE: 1998-06-17 |
| 69 | PRIOR APPLICATION NUMBER: 60/089653 |
| 70 | PRIOR FILING DATE: 1998-06-17 |
| 71 | PRIOR APPLICATION NUMBER: 60/089908 |
| 72 | PRIOR FILING DATE: 1998-06-17 |

Query Match 94.3%; Score 417; DB 13; Length 440;

Best Local Similarity 100.0%; Pred. No. 0;
Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 26 LRLLLLLFSAALIPDGQNLFTKDVTVIEGEVATISCVNKSDDSVIQLLNPNRTIY 85
Db LRLLLLLFSAALIPDGQNLFTKDVTVIEGEVATISCVNKSDDSVIQLLNPNRTIY 83

Qy 86 FRDPRPKDSRFQNLNFSSELKSLVSLTNVSI SDSGRYFCOLYTDPPQESYTTIIVLVPPR 145
Db FRDPRPKDSRFQNLNFSSELKSLVSLTNVSI SDSGRYFCOLYTDPPQESYTTIIVLVPPR 143

Qy 146 NLMDIQOTAVEGEEIEVNCNTAMASKPATIRWFKGNTLKGKSEVEEESDMYTVTSOL 205
Db NLMDIQOTAVEGEEIEVNCNTAMASKPATIRWFKGNTLKGKSEVEEESDMYTVTSOL 203

Qy 206 MLKVHKEDDGPVVCQVEHPAVTGNLQRYLEYQYKPVQVHIQMTYPLQGLTREGDALEL 265
Db MLKVHKEDDGPVVCQVEHPAVTGNLQRYLEYQYKPVQVHIQMTYPLQGLTREGDALEL 263

Qy 266 TCEAIGKQPQVMVTVWRVDDMPQHAVLSGPNLFINNLKNTDNGTYRCEASNIIVGKAHSD 325
Db TCEAIGKQPQVMVTVWRVDDMPQHAVLSGPNLFINNLKNTDNGTYRCEASNIIVGKAHSD 323

Qy 326 YMLVYVDPPTIIPPTTT 442
Db YMLVYVDPPTIIPPTTT 440

Qy 386 FAMLCLLIILGRYFARHKGTGYTTFHEAKGADDAADATAIINAEQQNNSEBKEYFI 442
Db FAMLCLLIILGRYFARHKGTGYTTFHEAKGADDAADATAIINAEQQNNSEBKEYFI 440

RESULT 34
US-10-174-590-34
; Sequence 34, Application US/10174590
; Publication No. US20030008352A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C42
; CURRENT APPLICATION NUMBER: US/10/174,590
; CURRENT FILING DATE: 2002-06-18
; Prior application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 34
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-174-590-34

Query Match 94.3%; Score 417; DB 14; Length 440;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 26 LRLLLLLFSAALIPDGQNLFTKDVTVIEGEVATISCVNKSDDSVIQLLNPNRTIY 85
Db LRLLLLLFSAALIPDGQNLFTKDVTVIEGEVATISCVNKSDDSVIQLLNPNRTIY 83

Qy 86 FRDPRPKDSRFQNLNFSSELKSLVSLTNVSI SDSGRYFCOLYTDPPQESYTTIIVLVPPR 145
Db FRDPRPKDSRFQNLNFSSELKSLVSLTNVSI SDSGRYFCOLYTDPPQESYTTIIVLVPPR 143

Qy 146 NLMDIQOTAVEGEEIEVNCNTAMASKPATIRWFKGNTLKGKSEVEEESDMYTVTSOL 205
Db NLMDIQOTAVEGEEIEVNCNTAMASKPATIRWFKGNTLKGKSEVEEESDMYTVTSOL 203

Qy 206 MLKVHKEDDGPVVCQVEHPAVTGNLQRYLEYQYKPVQVHIQMTYPLQGLTREGDALEL 265
Db MLKVHKEDDGPVVCQVEHPAVTGNLQRYLEYQYKPVQVHIQMTYPLQGLTREGDALEL 263

Qy 266 TCEAIGKQPQVMVTVWRVDDMPQHAVLSGPNLFINNLKNTDNGTYRCEASNIIVGKAHSD 325
Db TCEAIGKQPQVMVTVWRVDDMPQHAVLSGPNLFINNLKNTDNGTYRCEASNIIVGKAHSD 323

Qy 326 YMLVYVDPPTIIPPTTT 442
Db YMLVYVDPPTIIPPTTT 440

Qy 386 FAMLCLLIILGRYFARHKGTGYTTFHEAKGADDAADATAIINAEQQNNSEBKEYFI 442
Db FAMLCLLIILGRYFARHKGTGYTTFHEAKGADDAADATAIINAEQQNNSEBKEYFI 440

RESULT 35
US-10-176-758-34
; Sequence 34, Application US/10176758
; Publication No. US20030008353A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C104
; CURRENT APPLICATION NUMBER: US/10/176,758
; CURRENT FILING DATE: 2002-06-21
; Prior application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 34
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-176-758-34

Query Match 94.3%; Score 417; DB 14; Length 440;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 26 LRLLLLLFSAALIPDGQNLFTKDVTVIEGEVATISCVNKSDDSVIQLLNPNRTIY 85
Db LRLLLLLFSAALIPDGQNLFTKDVTVIEGEVATISCVNKSDDSVIQLLNPNRTIY 83

Qy 86 FRDPRPKDSRFQNLNFSSELKSLVSLTNVSI SDSGRYFCOLYTDPPQESYTTIIVLVPPR 145
Db FRDPRPKDSRFQNLNFSSELKSLVSLTNVSI SDSGRYFCOLYTDPPQESYTTIIVLVPPR 143

Qy 146 NLMDIQOTAVEGEEIEVNCNTAMASKPATIRWFKGNTLKGKSEVEEESDMYTVTSOL 205
Db NLMDIQOTAVEGEEIEVNCNTAMASKPATIRWFKGNTLKGKSEVEEESDMYTVTSOL 203

Qy 206 MLKVHKEDDGPVVCQVEHPAVTGNLQRYLEYQYKPVQVHIQMTYPLQGLTREGDALEL 265
Db MLKVHKEDDGPVVCQVEHPAVTGNLQRYLEYQYKPVQVHIQMTYPLQGLTREGDALEL 263

Qy 266 TCEAIGKQPQVMVTVWRVDDMPQHAVLSGPNLFINNLKNTDNGTYRCEASNIIVGKAHSD 325
Db TCEAIGKQPQVMVTVWRVDDMPQHAVLSGPNLFINNLKNTDNGTYRCEASNIIVGKAHSD 323

; PRIOR FILING DATE: 1998-03-20
; PRIOR APPLICATION NUMBER: 60/079664
; PRIOR FILING DATE: 1998-03-27
; PRIOR APPLICATION NUMBER: 60/079786
; PRIOR FILING DATE: 1998-03-27
; PRIOR APPLICATION NUMBER: 60/080107
; PRIOR FILING DATE: 1998-03-31
; PRIOR APPLICATION NUMBER: 60/080194
; PRIOR FILING DATE: 1998-03-31
; PRIOR APPLICATION NUMBER: 60/080327
; PRIOR FILING DATE: 1998-04-01
; PRIOR APPLICATION NUMBER: 60/080333
; PRIOR FILING DATE: 1998-04-01
; PRIOR APPLICATION NUMBER: 60/081049
; PRIOR FILING DATE: 1998-04-08
; PRIOR APPLICATION NUMBER: 60/081070
; PRIOR FILING DATE: 1998-04-08
; PRIOR APPLICATION NUMBER: 60/081195
; PRIOR FILING DATE: 1998-04-09
; PRIOR APPLICATION NUMBER: 60/081838
; PRIOR FILING DATE: 1998-04-15
; PRIOR APPLICATION NUMBER: 60/082568
; PRIOR FILING DATE: 1998-04-21
; PRIOR APPLICATION NUMBER: 60/082569
; PRIOR FILING DATE: 1998-04-21
; PRIOR APPLICATION NUMBER: 60/082704
; PRIOR FILING DATE: 1998-04-22
; PRIOR APPLICATION NUMBER: 60/082797
; PRIOR FILING DATE: 1998-04-22
; PRIOR APPLICATION NUMBER: 60/083322
; PRIOR FILING DATE: 1998-04-28
; PRIOR APPLICATION NUMBER: 60/083495
; PRIOR FILING DATE: 1998-04-29
; PRIOR APPLICATION NUMBER: 60/083496
; PRIOR FILING DATE: 1998-04-29
; PRIOR APPLICATION NUMBER: 60/083499
; PRIOR FILING DATE: 1998-04-29
; PRIOR APPLICATION NUMBER: 60/083559
; PRIOR FILING DATE: 1998-04-29
; PRIOR APPLICATION NUMBER: 60/084366
; PRIOR FILING DATE: 1998-05-05
; PRIOR APPLICATION NUMBER: 60/084414
; PRIOR FILING DATE: 1998-05-06
; PRIOR APPLICATION NUMBER: 60/084639
; PRIOR FILING DATE: 1998-05-07
; PRIOR APPLICATION NUMBER: 60/084640
; PRIOR FILING DATE: 1998-05-07
; PRIOR APPLICATION NUMBER: 60/084643
; PRIOR FILING DATE: 1998-05-07
; PRIOR APPLICATION NUMBER: 60/085573
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085579
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085580
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085582
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085700
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/086023
; PRIOR FILING DATE: 1998-05-18
; PRIOR APPLICATION NUMBER: 60/086392
; PRIOR FILING DATE: 1998-05-22
; PRIOR APPLICATION NUMBER: 60/086486
; PRIOR FILING DATE: 1998-05-22
; PRIOR APPLICATION NUMBER: 60/087098
; PRIOR FILING DATE: 1998-05-28
; PRIOR APPLICATION NUMBER: 60/087208
; PRIOR FILING DATE: 1998-05-28
; PRIOR APPLICATION NUMBER: 60/087609
; PRIOR FILING DATE: 1998-06-02
; PRIOR APPLICATION NUMBER: 60/087759
; PRIOR FILING DATE: 1998-06-02

; PRIOR APPLICATION NUMBER: 60/087827
; PRIOR FILING DATE: 1998-06-03
; PRIOR APPLICATION NUMBER: 60/088025
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088028
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088029
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088033
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088167
; PRIOR FILING DATE: 1998-06-05
; PRIOR APPLICATION NUMBER: 60/088202
; PRIOR FILING DATE: 1998-06-05
; PRIOR APPLICATION NUMBER: 60/088212
; PRIOR FILING DATE: 1998-06-05
; PRIOR APPLICATION NUMBER: 60/088217
; PRIOR FILING DATE: 1998-06-05
; PRIOR APPLICATION NUMBER: 60/088326
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088655
; PRIOR FILING DATE: 1998-06-09
; PRIOR APPLICATION NUMBER: 60/088722
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088738
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088740
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088811
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088824
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088825
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088826
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088861
; PRIOR FILING DATE: 1998-06-11
; PRIOR APPLICATION NUMBER: 60/088863
; PRIOR FILING DATE: 1998-06-11
; PRIOR APPLICATION NUMBER: 60/088876
; PRIOR FILING DATE: 1998-06-11
; PRIOR APPLICATION NUMBER: 60/089090
; PRIOR FILING DATE: 1998-06-12
; PRIOR APPLICATION NUMBER: 60/089105
; PRIOR FILING DATE: 1998-06-12
; PRIOR APPLICATION NUMBER: 60/089512
; PRIOR FILING DATE: 1998-06-16
; PRIOR APPLICATION NUMBER: 60/089514
; PRIOR FILING DATE: 1998-06-16
; PRIOR APPLICATION NUMBER: 60/089538
; PRIOR FILING DATE: 1998-06-17
; PRIOR APPLICATION NUMBER: 60/089598
; PRIOR FILING DATE: 1998-06-17
; PRIOR APPLICATION NUMBER: 60/089653

Query Match 94.3%; Score 417; DB 14; Length 440;

Best Local Similarity 100.0%; Pred. No. 0;

Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 26 LRLLLLFSAALIPGTGQNLFTKQVTVIEGEVATISQVKNKSDSDSVIQLLPNRQTIY 85

Db 24 LRLLLLFSAALIPGTGQNLFTKQVTVIEGEVATISQVKNKSDSDSVIQLLPNRQTIY 83

Qy 86 FRDPRFKDSRFFOLLNPFSSSELKVSILTNVSIISDEGRYFCOLYTDPPQESYTTITVLVPPR 145

Db 84 FRDPRFKDSRFFOLLNPFSSSELKVSILTNVSIISDEGRYFCOLYTDPPQESYTTITVLVPPR 143

Qy 146 NLMDIQKDTAVEGEEIEVNCTAMASKPATTIRFWKGNTELKKGSEVEESDMYTVTSOL 205

Db 144 NLMDIQKDTAVEGEEIEVNCTAMASKPATTIRFWKGNTELKKGSEVEESDMYTVTSOL 203

Qy 206 MLKVHKEDDGPVICQVEHPAVTGNLQTORYLEVQYKPVQHIQNTYPLQGLTREGDALEL 265


```
Db 204 MLKVHKEDDGVPVTCQVEHPAVTGNLQORYLEVQYKPVQVHIQMTYPLQGLTREGDALEL 263
Qy 266 TCEAIGKQPQVMVTVVRVDDMPQHAVLSGNPLFINNLNKTNDGTYRCEASNIVGKAHSD 325
Db 264 TCEAIGKQPQVMVTVVRVDDMPQHAVLSGNPLFINNLNKTNDGTYRCEASNIVGKAHSD 323
Qy 326 YMLVYVDPPTTIPPPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 385
Db 324 YMLVYVDPPTTIPPPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 383
Qy 386 FAMLCLLIILGRYFARHKGTYFTHEAKGADDAADATAIINAEAGGQNNSEKKEYFI 442
Db 384 FAMLCLLIILGRYFARHKGTYFTHEAKGADDAADATAIINAEAGGQNNSEKKEYFI 440

RESULT 38
US-10-176-483-34
; Sequence 34, Application US/10176483
; Publication No. US20030017541A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C68
; CURRENT APPLICATION NUMBER: US/10/176,483
; CURRENT FILING DATE: 2002-06-20
; Prior application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 34
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-176-483-34
```

```
Query Match 94.3%; Score 417; DB 14; Length 440;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 26 LRLLLLFSAALIPGTGQNLFTKDVTVIEGEVATISQVKNKSDSDSVIQLLNPRTIY 85
Db 24 LRLLLLFSAALIPGTGQNLFTKDVTVIEGEVATISQVKNKSDSDSVIQLLNPRTIY 83
Qy 86 FRDPRPKDSRFQLLNFSSELKVSILTNVSIISDEGRYFCQLYTDPPQESYTTITVLVPPR 145
Db 84 FRDPRPKDSRFQLLNFSSELKVSILTNVSIISDEGRYFCQLYTDPPQESYTTITVLVPPR 143
Qy 146 NLMDIQDQTAVEGEEIEVNCCTAMASKPATITIRWFKGNTELKKGSEVEEWSDMYTVTSOL 205
Db 144 NLMDIQDQTAVEGEEIEVNCCTAMASKPATITIRWFKGNTELKKGSEVEEWSDMYTVTSOL 203
Qy 206 MLKVHKEDDGVPVTCQVEHPAVTGNLQORYLEVQYKPVQVHIQMTYPLQGLTREGDALEL 265
Db 204 MLKVHKEDDGVPVTCQVEHPAVTGNLQORYLEVQYKPVQVHIQMTYPLQGLTREGDALEL 263
Qy 326 YMLVYVDPPTTIPPPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 385
Db 324 YMLVYVDPPTTIPPPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 383
```

```
Qy 386 FAMLCLLIILGRYFARHKGTYFTHEAKGADDAADATAIINAEAGGQNNSEKKEYFI 442
Db 384 FAMLCLLIILGRYFARHKGTYFTHEAKGADDAADATAIINAEAGGQNNSEKKEYFI 440

RESULT 39
US-10-176-749-34
; Sequence 34, Application US/10176749
; Publication No. US20030017542A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C76
; CURRENT APPLICATION NUMBER: US/10/176,749
; CURRENT FILING DATE: 2002-06-20
; Prior application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 34
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-176-749-34
```

```
Query Match 94.3%; Score 417; DB 14; Length 440;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 26 LRLLLLFSAALIPGTGQNLFTKDVTVIEGEVATISQVKNKSDSDSVIQLLNPRTIY 85
Db 24 LRLLLLFSAALIPGTGQNLFTKDVTVIEGEVATISQVKNKSDSDSVIQLLNPRTIY 83
Qy 86 FRDPRPKDSRFQLLNFSSELKVSILTNVSIISDEGRYFCQLYTDPPQESYTTITVLVPPR 145
Db 84 FRDPRPKDSRFQLLNFSSELKVSILTNVSIISDEGRYFCQLYTDPPQESYTTITVLVPPR 143
Qy 146 NLMDIQDQTAVEGEEIEVNCCTAMASKPATITIRWFKGNTELKKGSEVEEWSDMYTVTSOL 205
Db 144 NLMDIQDQTAVEGEEIEVNCCTAMASKPATITIRWFKGNTELKKGSEVEEWSDMYTVTSOL 203
Qy 206 MLKVHKEDDGVPVTCQVEHPAVTGNLQORYLEVQYKPVQVHIQMTYPLQGLTREGDALEL 265
Db 204 MLKVHKEDDGVPVTCQVEHPAVTGNLQORYLEVQYKPVQVHIQMTYPLQGLTREGDALEL 263
Qy 326 YMLVYVDPPTTIPPPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 385
Db 324 YMLVYVDPPTTIPPPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 383
```

```
RESULT 40
US-10-176-914-34
; Sequence 34, Application US/10176914
; Publication No. US20030017543A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
US-10-176-914-34
```



```
; APPLICANT: Chen,Jian
; APPLICANT: Desnoyers,Luc
; APPLICANT: Goddard,Audrey
; APPLICANT: Godowski,Paul J.
; APPLICANT: Gurney,Austin L.
; APPLICANT: Pan,James
; APPLICANT: Smith,Victoria
; APPLICANT: Watanabe,Colin K.
; APPLICANT: Wood,William I.
; APPLICANT: Zhang,Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C83
; CURRENT APPLICATION NUMBER: US/10/176,914
; CURRENT FILING DATE: 2002-06-20
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 34
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
; US-10-176-914-34

Query Match          94.3%; Score 417; DB 14; Length 440;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 26 LRLLLLFSAALIPGTGQNLFTKDVTVIEGEVATISCVQNKSDSDSVIQLLNPRTIY 85
Db 24 LRLLLLFSAALIPGTGQNLFTKDVTVIEGEVATISCVQNKSDSDSVIQLLNPRTIY 83

Qy 86 FRDPRPLKDSRFQLLNFSSELKVSLSNVSISDEGRYFCQLYTDPPQESYTIITVLVPPR 145
Db 84 FRDPRPLKDSRFQLLNFSSELKVSLSNVSISDEGRYFCQLYTDPPQESYTIITVLVPPR 143

Qy 146 NLMDIQDQTAVEGEIEVNCNTAMASKPATIRFKGNTELKKGSEVEEWSDMYTVTSOL 205
Db 144 NLMDIQDQTAVEGEIEVNCNTAMASKPATIRFKGNTELKKGSEVEEWSDMYTVTSOL 203

Qy 206 MLKVHKEDDGPVVCQVEHPAVTGNLTQRYLEYQVKPQVHIQMTYPLQGLTREGDALEL 265
Db 204 MLKVHKEDDGPVVCQVEHPAVTGNLTQRYLEYQVKPQVHIQMTYPLQGLTREGDALEL 263

Qy 266 TCEAIGKQPQVMVTWVRVDDMPQHAVLSGPNLFINLNKTDNGTYRCEASNIVGKAHSD 325
Db 264 TCEAIGKQPQVMVTWVRVDDMPQHAVLSGPNLFINLNKTDNGTYRCEASNIVGKAHSD 323

Qy 326 YMLVYDPPPTIIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 385
Db 324 YMLVYDPPPTIIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 383

Qy 386 FAMLCLLIILGRYFARHKGTFTHEAKGADDAADATTAIINAEQGQNNSEKKEYFI 442
Db 384 FAMLCLLIILGRYFARHKGTFTHEAKGADDAADATTAIINAEQGQNNSEKKEYFI 440

RESULT 41
US-10-176-915-34
; Sequence 34, Application US/10176915
; Publication No. US20030017544A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C83
; CURRENT APPLICATION NUMBER: US/10/173,706
; CURRENT FILING DATE: 2002-06-17
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 34
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
; US-10-173-706-34
```

```
; TITLE OF INVENTION: ACIDS ENCODING THE SAME
; FILE REFERENCE: P3430R1C110
; CURRENT APPLICATION NUMBER: US/10/176,915
; CURRENT FILING DATE: 2002-06-21
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 34
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
; US-10-176-915-34

Query Match          94.3%; Score 417; DB 14; Length 440;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 26 LRLLLLFSAALIPGTGQNLFTKDVTVIEGEVATISCVQNKSDSDSVIQLLNPRTIY 85
Db 24 LRLLLLFSAALIPGTGQNLFTKDVTVIEGEVATISCVQNKSDSDSVIQLLNPRTIY 83

Qy 86 FRDPRPLKDSRFQLLNFSSELKVSLSNVSISDEGRYFCQLYTDPPQESYTIITVLVPPR 145
Db 84 FRDPRPLKDSRFQLLNFSSELKVSLSNVSISDEGRYFCQLYTDPPQESYTIITVLVPPR 143

Qy 146 NLMDIQDQTAVEGEIEVNCNTAMASKPATIRFKGNTELKKGSEVEEWSDMYTVTSOL 205
Db 144 NLMDIQDQTAVEGEIEVNCNTAMASKPATIRFKGNTELKKGSEVEEWSDMYTVTSOL 203

Qy 206 MLKVHKEDDGPVVCQVEHPAVTGNLTQRYLEYQVKPQVHIQMTYPLQGLTREGDALEL 265
Db 204 MLKVHKEDDGPVVCQVEHPAVTGNLTQRYLEYQVKPQVHIQMTYPLQGLTREGDALEL 263

Qy 266 TCEAIGKQPQVMVTWVRVDDMPQHAVLSGPNLFINLNKTDNGTYRCEASNIVGKAHSD 325
Db 264 TCEAIGKQPQVMVTWVRVDDMPQHAVLSGPNLFINLNKTDNGTYRCEASNIVGKAHSD 323

Qy 326 YMLVYDPPPTIIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 385
Db 324 YMLVYDPPPTIIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 383

Qy 386 FAMLCLLIILGRYFARHKGTFTHEAKGADDAADATTAIINAEQGQNNSEKKEYFI 442
Db 384 FAMLCLLIILGRYFARHKGTFTHEAKGADDAADATTAIINAEQGQNNSEKKEYFI 440

RESULT 42
US-10-173-706-34
; Sequence 34, Application US/10173706
; Publication No. US2003002293A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C7
; CURRENT APPLICATION NUMBER: US/10/173,706
; CURRENT FILING DATE: 2002-06-17
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 34
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
; US-10-173-706-34
```



```
; APPLICANT: Gurney,Austin L.
; APPLICANT: Pan,James
; APPLICANT: Smith,Victoria
; APPLICANT: Watanabe,Colin K.
; APPLICANT: Wood,William I.
; APPLICANT: Zhang,Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C66
; CURRENT APPLICATION NUMBER: US/10/176,913
; CURRENT FILING DATE: 2002-06-20
; Prior Application removed - See file Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 34
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-176-913-34

Query Match          94.3%; Score 417; DB 14; Length 440;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 26 LRLLLLFSAALIPGTGQNLFTKDVTVIEGEVATISCOVNKSDSDSVIQLLNPNRQTIY 85
Db 24 LRLLLLFSAALIPGTGQNLFTKDVTVIEGEVATISCOVNKSDSDSVIQLLNPNRQTIY 83

QY 86 FRDPRPLKDSRFOLLNFSSELKVSILTNVSIISDEGRYFCOLYTDPPQESYTTITVLVPPR 145
Db 84 FRDPRPLKDSRFOLLNFSSELKVSILTNVSIISDEGRYFCOLYTDPPQESYTTITVLVPPR 143

QY 146 NLMDIQKDTAVEGEEIEVNCTAMASKPATITIRFWKGNTELKKGSEVEEWSDMYTVTSOL 205
Db 144 NLMDIQKDTAVEGEEIEVNCTAMASKPATITIRFWKGNTELKKGSEVEEWSDMYTVTSOL 203

QY 206 MLKVHKEDDGPVVCQVEHPAVTGNLTQRYLEVQYKPVHIIQMTYPLQGLTREGDALEL 265
Db 204 MLKVHKEDDGPVVCQVEHPAVTGNLTQRYLEVQYKPVHIIQMTYPLQGLTREGDALEL 263

QY 266 TCEAIGKQPQVMVTVRVDDMPQHAVLSGPNLFINLNKTDNGTYRCEASNIVGKAHSD 325
Db 264 TCEAIGKQPQVMVTVRVDDMPQHAVLSGPNLFINLNKTDNGTYRCEASNIVGKAHSD 323

QY 326 YMLYVDDPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTITDTSRAGEEGSIRAVDHAVIGGWAVV 385
Db 324 YMLYVDDPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTITDTSRAGEEGSIRAVDHAVIGGWAVV 383

QY 386 FAMLCLLIILGRYFARHKGTYFTHEAKGADDAADATTAIINAEQQNNSEKKEYFI 442
Db 384 FAMLCLLIILGRYFARHKGTYFTHEAKGADDAADATTAIINAEQQNNSEKKEYFI 440

RESULT 48
US-10-180-552-34
; Sequence 34, Application US/10180552
; Publication No. US20030022300A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C147
; CURRENT APPLICATION NUMBER: US/10/180,552
; CURRENT FILING DATE: 2002-06-25
; Prior Application removed - See file Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 34
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-180-552-34

Query Match          94.3%; Score 417; DB 14; Length 440;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 26 LRLLLLFSAALIPGTGQNLFTKDVTVIEGEVATISCOVNKSDSDSVIQLLNPNRQTIY 85
Db 24 LRLLLLFSAALIPGTGQNLFTKDVTVIEGEVATISCOVNKSDSDSVIQLLNPNRQTIY 83

QY 86 FRDPRPLKDSRFOLLNFSSELKVSILTNVSIISDEGRYFCOLYTDPPQESYTTITVLVPPR 145
Db 84 FRDPRPLKDSRFOLLNFSSELKVSILTNVSIISDEGRYFCOLYTDPPQESYTTITVLVPPR 143

QY 146 NLMDIQKDTAVEGEEIEVNCTAMASKPATITIRFWKGNTELKKGSEVEEWSDMYTVTSOL 205
Db 144 NLMDIQKDTAVEGEEIEVNCTAMASKPATITIRFWKGNTELKKGSEVEEWSDMYTVTSOL 203

QY 206 MLKVHKEDDGPVVCQVEHPAVTGNLTQRYLEVQYKPVHIIQMTYPLQGLTREGDALEL 265
Db 204 MLKVHKEDDGPVVCQVEHPAVTGNLTQRYLEVQYKPVHIIQMTYPLQGLTREGDALEL 263

QY 266 TCEAIGKQPQVMVTVRVDDMPQHAVLSGPNLFINLNKTDNGTYRCEASNIVGKAHSD 325
Db 264 TCEAIGKQPQVMVTVRVDDMPQHAVLSGPNLFINLNKTDNGTYRCEASNIVGKAHSD 323

QY 326 YMLYVDDPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTITDTSRAGEEGSIRAVDHAVIGGWAVV 385
Db 324 YMLYVDDPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTITDTSRAGEEGSIRAVDHAVIGGWAVV 383

QY 386 FAMLCLLIILGRYFARHKGTYFTHEAKGADDAADATTAIINAEQQNNSEKKEYFI 442
Db 384 FAMLCLLIILGRYFARHKGTYFTHEAKGADDAADATTAIINAEQQNNSEKKEYFI 440

RESULT 48
US-10-180-552-34
; Sequence 34, Application US/10180552
; Publication No. US20030022300A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C153
; CURRENT APPLICATION NUMBER: US/10/180,552
; CURRENT FILING DATE: 2002-06-25
```

```
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 34
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-180-552-34

Query Match          94.3%; Score 417; DB 14; Length 440;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 26 LRLLLLFSAALIPGTGQNLFTKDVTVIEGEVATISCOVNKSDSDSVIQLLNPNRQTIY 85
Db 24 LRLLLLFSAALIPGTGQNLFTKDVTVIEGEVATISCOVNKSDSDSVIQLLNPNRQTIY 83

QY 86 FRDPRPLKDSRFOLLNFSSELKVSILTNVSIISDEGRYFCOLYTDPPQESYTTITVLVPPR 145
Db 84 FRDPRPLKDSRFOLLNFSSELKVSILTNVSIISDEGRYFCOLYTDPPQESYTTITVLVPPR 143

QY 146 NLMDIQKDTAVEGEEIEVNCTAMASKPATITIRFWKGNTELKKGSEVEEWSDMYTVTSOL 205
Db 144 NLMDIQKDTAVEGEEIEVNCTAMASKPATITIRFWKGNTELKKGSEVEEWSDMYTVTSOL 203

QY 206 MLKVHKEDDGPVVCQVEHPAVTGNLTQRYLEVQYKPVHIIQMTYPLQGLTREGDALEL 265
Db 204 MLKVHKEDDGPVVCQVEHPAVTGNLTQRYLEVQYKPVHIIQMTYPLQGLTREGDALEL 263

QY 266 TCEAIGKQPQVMVTVRVDDMPQHAVLSGPNLFINLNKTDNGTYRCEASNIVGKAHSD 325
Db 264 TCEAIGKQPQVMVTVRVDDMPQHAVLSGPNLFINLNKTDNGTYRCEASNIVGKAHSD 323

QY 326 YMLYVDDPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTITDTSRAGEEGSIRAVDHAVIGGWAVV 385
Db 324 YMLYVDDPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTITDTSRAGEEGSIRAVDHAVIGGWAVV 383

QY 386 FAMLCLLIILGRYFARHKGTYFTHEAKGADDAADATTAIINAEQQNNSEKKEYFI 442
Db 384 FAMLCLLIILGRYFARHKGTYFTHEAKGADDAADATTAIINAEQQNNSEKKEYFI 440

RESULT 49
US-10-180-557-34
; Sequence 34, Application US/10180557
; Publication No. US20030022301A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C147
; CURRENT APPLICATION NUMBER: US/10/180,557
; CURRENT FILING DATE: 2002-06-25
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 34
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-180-557-34

Query Match          94.3%; Score 417; DB 14; Length 440;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy 26 LRLLLLFSAALIPGTGQNLFTKDVTVIEGEVATISCVNKSDDSVIQLLNNRQTIY 85
Db 24 LRLLLLFSAALIPGTGQNLFTKDVTVIEGEVATISCVNKSDDSVIQLLNNRQTIY 83
Qy 86 FRDPRPLKDSRFQLLNFSSSELKSLVSLTNVSISSDEGRYFCQLYTDPPQESYTTITVLVPPR 145
Db 84 FRDPRPLKDSRFQLLNFSSSELKSLVSLTNVSISSDEGRYFCQLYTDPPQESYTTITVLVPPR 143
Qy 146 NLMDIQKTAVAGEEIEVNCNTAMASKPATIRFWKGNTELKSGSEVEEWSMDYTVTSOL 205
Db 144 NLMDIQKTAVAGEEIEVNCNTAMASKPATIRFWKGNTELKSGSEVEEWSMDYTVTSOL 203
Qy 206 MLKVHKEDDGPVVCQVEHPAVTGNLQTRYLEVOYKPOVHIQMTYPLQGLTREGDALEL 265
Db 204 MLKVHKEDDGPVVCQVEHPAVTGNLQTRYLEVOYKPOVHIQMTYPLQGLTREGDALEL 263
Qy 266 TCEAIGKQPQVMVTVWRVDDMPQHAVLSGNLFINNLKNTDNGTYRCEASNIVGKAHSD 325
Db 264 TCEAIGKQPQVMVTVWRVDDMPQHAVLSGNLFINNLKNTDNGTYRCEASNIVGKAHSD 323
Qy 326 YMLYVDPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 385
Db 324 YMLYVDPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 383
Qy 386 FAMLCLLIILGRYPARHKGYFTHEAKGADDAADATTAIINAEQQNNSEKKEYFI 442
Db 384 FAMLCLLIILGRYPARHKGYFTHEAKGADDAADATTAIINAEQQNNSEKKEYFI 440

RESULT 50
US-10-173-700-34
; Sequence 34, Application US/10173700
; Publication No. US20030027262A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C14
; CURRENT APPLICATION NUMBER: US/10/173.700
; CURRENT FILING DATE: 2002-06-17
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 34
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-173-700-34

Query Match 94.3%; Score 417; DB 14; Length 440;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 26 LRLLLLFSAALIPGTGQNLFTKDVTVIEGEVATISCVNKSDDSVIQLLNNRQTIY 85
Db 24 LRLLLLFSAALIPGTGQNLFTKDVTVIEGEVATISCVNKSDDSVIQLLNNRQTIY 83
Qy 86 FRDPRPLKDSRFQLLNFSSSELKSLVSLTNVSISSDEGRYFCQLYTDPPQESYTTITVLVPPR 145
Db 84 FRDPRPLKDSRFQLLNFSSSELKSLVSLTNVSISSDEGRYFCQLYTDPPQESYTTITVLVPPR 143
Qy 146 NLMDIQKTAVAGEEIEVNCNTAMASKPATIRFWKGNTELKSGSEVEEWSMDYTVTSOL 205
Db 144 NLMDIQKTAVAGEEIEVNCNTAMASKPATIRFWKGNTELKSGSEVEEWSMDYTVTSOL 203
```

```
Db 144 NLMDIQKTAVAGEEIEVNCNTAMASKPATIRFWKGNTELKSGSEVEEWSMDYTVTSOL 203
Qy 206 MLKVHKEDDGPVVCQVEHPAVTGNLQTRYLEVOYKPOVHIQMTYPLQGLTREGDALEL 265
Db 204 MLKVHKEDDGPVVCQVEHPAVTGNLQTRYLEVOYKPOVHIQMTYPLQGLTREGDALEL 263
Qy 266 TCEAIGKQPQVMVTVWRVDDMPQHAVLSGNLFINNLKNTDNGTYRCEASNIVGKAHSD 325
Db 264 TCEAIGKQPQVMVTVWRVDDMPQHAVLSGNLFINNLKNTDNGTYRCEASNIVGKAHSD 323
Qy 326 YMLYVDPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 385
Db 324 YMLYVDPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 383
Qy 386 FAMLCLLIILGRYPARHKGYFTHEAKGADDAADATTAIINAEQQNNSEKKEYFI 442
Db 384 FAMLCLLIILGRYPARHKGYFTHEAKGADDAADATTAIINAEQQNNSEKKEYFI 440

RESULT 51
US-10-174-572-34
; Sequence 34, Application US/10174572
; Publication No. US20030027263A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C40
; CURRENT APPLICATION NUMBER: US/10/174.572
; CURRENT FILING DATE: 2002-06-18
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 34
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-174-572-34

Query Match 94.3%; Score 417; DB 14; Length 440;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 26 LRLLLLFSAALIPGTGQNLFTKDVTVIEGEVATISCVNKSDDSVIQLLNNRQTIY 85
Db 24 LRLLLLFSAALIPGTGQNLFTKDVTVIEGEVATISCVNKSDDSVIQLLNNRQTIY 83
Qy 86 FRDPRPLKDSRFQLLNFSSSELKSLVSLTNVSISSDEGRYFCQLYTDPPQESYTTITVLVPPR 145
Db 84 FRDPRPLKDSRFQLLNFSSSELKSLVSLTNVSISSDEGRYFCQLYTDPPQESYTTITVLVPPR 143
Qy 146 NLMDIQKTAVAGEEIEVNCNTAMASKPATIRFWKGNTELKSGSEVEEWSMDYTVTSOL 205
Db 144 NLMDIQKTAVAGEEIEVNCNTAMASKPATIRFWKGNTELKSGSEVEEWSMDYTVTSOL 203
Qy 206 MLKVHKEDDGPVVCQVEHPAVTGNLQTRYLEVOYKPOVHIQMTYPLQGLTREGDALEL 265
Db 204 MLKVHKEDDGPVVCQVEHPAVTGNLQTRYLEVOYKPOVHIQMTYPLQGLTREGDALEL 263
Qy 266 TCEAIGKQPQVMVTVWRVDDMPQHAVLSGNLFINNLKNTDNGTYRCEASNIVGKAHSD 325
Db 264 TCEAIGKQPQVMVTVWRVDDMPQHAVLSGNLFINNLKNTDNGTYRCEASNIVGKAHSD 323
Qy 326 YMLYVDPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 385
```



```
; APPLICANT: Wood,William I.
; APPLICANT: Zhang,Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C28
; CURRENT APPLICATION NUMBER: US/10/174,588
; CURRENT FILING DATE: 2002-06-18
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 34
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-174-588-34

Query Match          94.3%; Score 417; DB 14; Length 440;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 26 LRLLLLFSAALIPGCGQLFTKDVTVIEGEVATISCVNKSDDSVIQLLNPRTIY 85
Db 24 LRLLLLFSAALIPGCGQLFTKDVTVIEGEVATISCVNKSDDSVIQLLNPRTIY 83

Qy 86 FRDPRPLKDSRFQLLNFSSSELKVSLSNVSISDEGRYFCOLYTDPPQESYTTITVLVPPR 145
Db 84 FRDPRPLKDSRFQLLNFSSSELKVSLSNVSISDEGRYFCOLYTDPPQESYTTITVLVPPR 143

Qy 146 NLMDIQKTAVEGEEIEVNCTAMASKPATIRFWKGNTELKKGSEVEEWSDMYTVTSQ 205
Db 144 NLMDIQKTAVEGEEIEVNCTAMASKPATIRFWKGNTELKKGSEVEEWSDMYTVTSQ 203

Qy 206 MLKVHKEDDGPVVCQVEHPAVTGNLQRYLEYQYKPVQVHIQMTYPLQGLTREGDALE 265
Db 204 MLKVHKEDDGPVVCQVEHPAVTGNLQRYLEYQYKPVQVHIQMTYPLQGLTREGDALE 263

Qy 266 TCEAIGKQPQVMVTVWRVDDMPQHAVLSGNLFINLNKTDNGTYRCEASNIVGKAHSD 325
Db 264 TCEAIGKQPQVMVTVWRVDDMPQHAVLSGNLFINLNKTDNGTYRCEASNIVGKAHSD 323

Qy 326 YMLVYDPPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTITITDSRAGEEGSIRAVDHAVIGVAVV 385
Db 324 YMLVYDPPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTITITDSRAGEEGSIRAVDHAVIGVAVV 383

Qy 386 FAMLCLLIILGRYPARHKGYFTTHEAGDADAADATTAIINAEQQNNSEKKEYFI 442
Db 384 FAMLCLLIILGRYPARHKGYFTTHEAGDADAADATTAIINAEQQNNSEKKEYFI 440

RESULT 55
US-10-175-739-34
; Sequence 34, Application US/10175739
; Publication No. US20030027267A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C46
; CURRENT APPLICATION NUMBER: US/10/175,739
; CURRENT FILING DATE: 2002-06-18
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 34
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-175-740-34

Query Match          94.3%; Score 417; DB 14; Length 440;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 26 LRLLLLFSAALIPGCGQLFTKDVTVIEGEVATISCVNKSDDSVIQLLNPRTIY 85
Db 24 LRLLLLFSAALIPGCGQLFTKDVTVIEGEVATISCVNKSDDSVIQLLNPRTIY 83

Qy 86 FRDPRPLKDSRFQLLNFSSSELKVSLSNVSISDEGRYFCOLYTDPPQESYTTITVLVPPR 145
Db 84 FRDPRPLKDSRFQLLNFSSSELKVSLSNVSISDEGRYFCOLYTDPPQESYTTITVLVPPR 143

Qy 146 NLMDIQKTAVEGEEIEVNCTAMASKPATIRFWKGNTELKKGSEVEEWSDMYTVTSQ 205
Db 144 NLMDIQKTAVEGEEIEVNCTAMASKPATIRFWKGNTELKKGSEVEEWSDMYTVTSQ 203

Qy 206 MLKVHKEDDGPVVCQVEHPAVTGNLQRYLEYQYKPVQVHIQMTYPLQGLTREGDALE 265
Db 204 MLKVHKEDDGPVVCQVEHPAVTGNLQRYLEYQYKPVQVHIQMTYPLQGLTREGDALE 263

Qy 266 TCEAIGKQPQVMVTVWRVDDMPQHAVLSGNLFINLNKTDNGTYRCEASNIVGKAHSD 325
Db 264 TCEAIGKQPQVMVTVWRVDDMPQHAVLSGNLFINLNKTDNGTYRCEASNIVGKAHSD 323

Qy 326 YMLVYDPPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTITITDSRAGEEGSIRAVDHAVIGVAVV 385
Db 324 YMLVYDPPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTITITDSRAGEEGSIRAVDHAVIGVAVV 383

Qy 386 FAMLCLLIILGRYPARHKGYFTTHEAGDADAADATTAIINAEQQNNSEKKEYFI 442
Db 384 FAMLCLLIILGRYPARHKGYFTTHEAGDADAADATTAIINAEQQNNSEKKEYFI 440

RESULT 56
US-10-175-740-34
; Sequence 34, Application US/10175740
; Publication No. US20030027268A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C61
; CURRENT APPLICATION NUMBER: US/10/175,740
; CURRENT FILING DATE: 2002-06-18
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 34
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-175-740-34

Query Match          94.3%; Score 417; DB 14; Length 440;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 26 LRLLLLFSAALIPGCGQLFTKDVTVIEGEVATISCVNKSDDSVIQLLNPRTIY 85
Db 24 LRLLLLFSAALIPGCGQLFTKDVTVIEGEVATISCVNKSDDSVIQLLNPRTIY 83
```



```
QY      86 FRDPRPKDSRFQLLNFSSSELKVSLSLTVNSISDEGRYFCQLYTDPPOESYTTITVLVPPR 145
      |||
Db      84 FRDPRPKDSRFQLLNFSSSELKVSLSLTVNSISDEGRYFCQLYTDPPOESYTTITVLVPPR 143
      |||
QY     146 NLMIDIOKTAVEGEEIEVNCVTAMASKPATIRWFKGNTLKGKSEVEEWSMDMYTVTSQ 205
      |||
Db     144 NLMIDIOKTAVEGEEIEVNCVTAMASKPATIRWFKGNTLKGKSEVEEWSMDMYTVTSQ 203
      |||
QY     206 MLKVHKEDDGPVVCQVEHPAVTCNLQOTQRYLEVQYKPOVHIQWYPLQGLTREGDALEL 265
      |||
Db     204 MLKVHKEDDGPVVCQVEHPAVTCNLQOTQRYLEVQYKPOVHIQWYPLQGLTREGDALEL 263
      |||
QY     266 TCBAIGKQPQVMVWTVRVDDEMPQHAVLSGPNLFINNLTNDGTGTCRCEASNIVGKAHSD 325
      |||
Db     264 TCBAIGKQPQVMVWTVRVDDEMPQHAVLSGPNLFINNLTNDGTGTCRCEASNIVGKAHSD 323
      |||
QY     326 YMLYVDPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 385
      |||
Db     324 YMLYVDPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 383
      |||
QY     386 FAMLCLLIILGRYFARHKGYFTHEAKGADDAADATAIINASGQNNSEKKEYFI 442
      |||
Db     384 FAMLCLLIILGRYFARHKGYFTHEAKGADDAADATAIINASGQNNSEKKEYFI 440
      |||

RESULT 57
US-10-175-743-34
; Sequence 34, Application US/10175743
; Publication No. US20030027269A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Deanoysers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C52
; CURRENT APPLICATION NUMBER: US/10/175,743
; CURRENT FILING DATE: 2002-06-16
; PRIOR APPLICATION NUMBER: 10/052586
; PRIOR FILING DATE: 2002-01-15
; PRIOR APPLICATION NUMBER: 60/059263
; PRIOR FILING DATE: 1997-09-18
; PRIOR APPLICATION NUMBER: 60/059266
; PRIOR FILING DATE: 1997-09-18
; PRIOR APPLICATION NUMBER: 60/062250
; PRIOR FILING DATE: 1997-10-17
; PRIOR APPLICATION NUMBER: 60/063120
; PRIOR FILING DATE: 1997-10-24
; PRIOR APPLICATION NUMBER: 60/063121
; PRIOR FILING DATE: 1997-10-24
; PRIOR APPLICATION NUMBER: 60/063486
; PRIOR FILING DATE: 1997-10-21
; PRIOR APPLICATION NUMBER: 60/063540
; PRIOR FILING DATE: 1997-10-28
; PRIOR APPLICATION NUMBER: 60/063541
; PRIOR FILING DATE: 1997-10-28
; PRIOR APPLICATION NUMBER: 60/063544
; PRIOR FILING DATE: 1997-10-28
; PRIOR APPLICATION NUMBER: 60/063564
; PRIOR FILING DATE: 1997-10-28
; PRIOR APPLICATION NUMBER: 60/063734
; PRIOR FILING DATE: 1997-10-29
; PRIOR APPLICATION NUMBER: 60/063870
; PRIOR FILING DATE: 1997-10-31
;
; PRIOR APPLICATION NUMBER: 60/064103
; PRIOR FILING DATE: 1997-10-31
; PRIOR APPLICATION NUMBER: 60/065311
; PRIOR FILING DATE: 1997-11-13
; PRIOR APPLICATION NUMBER: 60/066120
; PRIOR FILING DATE: 1997-11-21
; PRIOR APPLICATION NUMBER: 60/066466
; PRIOR FILING DATE: 1997-11-24
; PRIOR APPLICATION NUMBER: 60/066772
; PRIOR FILING DATE: 1997-11-24
; PRIOR APPLICATION NUMBER: 60/069335
; PRIOR FILING DATE: 1997-12-11
; PRIOR APPLICATION NUMBER: 60/069425
; PRIOR FILING DATE: 1997-12-12
; PRIOR APPLICATION NUMBER: 60/069870
; PRIOR FILING DATE: 1997-12-17
; PRIOR APPLICATION NUMBER: 60/068017
; PRIOR FILING DATE: 1997-12-18
; PRIOR APPLICATION NUMBER: 60/077450
; PRIOR FILING DATE: 1998-03-10
; PRIOR APPLICATION NUMBER: 60/077632
; PRIOR FILING DATE: 1998-03-11
; PRIOR APPLICATION NUMBER: 60/077649
; PRIOR FILING DATE: 1998-03-11
; PRIOR APPLICATION NUMBER: 60/078886
; PRIOR FILING DATE: 1998-03-20
; PRIOR APPLICATION NUMBER: 60/078939
; PRIOR FILING DATE: 1998-03-20
; PRIOR APPLICATION NUMBER: 60/079664
; PRIOR FILING DATE: 1998-03-27
; PRIOR APPLICATION NUMBER: 60/079786
; PRIOR FILING DATE: 1998-03-27
; PRIOR APPLICATION NUMBER: 60/080107
; PRIOR FILING DATE: 1998-03-31
; PRIOR APPLICATION NUMBER: 60/080194
; PRIOR FILING DATE: 1998-03-31
; PRIOR APPLICATION NUMBER: 60/080327
; PRIOR FILING DATE: 1998-04-01
; PRIOR APPLICATION NUMBER: 60/080333
; PRIOR FILING DATE: 1998-04-01
; PRIOR APPLICATION NUMBER: 60/081049
; PRIOR FILING DATE: 1998-04-08
; PRIOR APPLICATION NUMBER: 60/081070
; PRIOR FILING DATE: 1998-04-08
; PRIOR APPLICATION NUMBER: 60/081195
; PRIOR FILING DATE: 1998-04-09
; PRIOR APPLICATION NUMBER: 60/081838
; PRIOR FILING DATE: 1998-04-15
; PRIOR APPLICATION NUMBER: 60/082568
; PRIOR FILING DATE: 1998-04-21
; PRIOR APPLICATION NUMBER: 60/082569
; PRIOR FILING DATE: 1998-04-21
; PRIOR APPLICATION NUMBER: 60/082704
; PRIOR FILING DATE: 1998-04-22
; PRIOR APPLICATION NUMBER: 60/082797
; PRIOR FILING DATE: 1998-04-22
; PRIOR APPLICATION NUMBER: 60/083322
; PRIOR FILING DATE: 1998-04-28
; PRIOR APPLICATION NUMBER: 60/083495
; PRIOR FILING DATE: 1998-04-29
; PRIOR APPLICATION NUMBER: 60/083496
; PRIOR FILING DATE: 1998-04-29
; PRIOR APPLICATION NUMBER: 60/083499
; PRIOR FILING DATE: 1998-04-29
; PRIOR APPLICATION NUMBER: 60/083559
; PRIOR FILING DATE: 1998-04-29
; PRIOR APPLICATION NUMBER: 60/084366
; PRIOR FILING DATE: 1998-05-05
; PRIOR APPLICATION NUMBER: 60/084414
; PRIOR FILING DATE: 1998-05-06
; PRIOR APPLICATION NUMBER: 60/084639
; PRIOR FILING DATE: 1998-05-07
; PRIOR APPLICATION NUMBER: 60/084640
```


; PRIOR FILING DATE: 1998-05-07
; PRIOR APPLICATION NUMBER: 60/084643
; PRIOR FILING DATE: 1998-05-07
; PRIOR APPLICATION NUMBER: 60/085573
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085579
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085580
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085582
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085700
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/086023
; PRIOR FILING DATE: 1998-05-18
; PRIOR APPLICATION NUMBER: 60/086392
; PRIOR FILING DATE: 1998-05-22
; PRIOR APPLICATION NUMBER: 60/086486
; PRIOR FILING DATE: 1998-05-22
; PRIOR APPLICATION NUMBER: 60/087098
; PRIOR FILING DATE: 1998-05-28
; PRIOR APPLICATION NUMBER: 60/087208
; PRIOR FILING DATE: 1998-05-28
; PRIOR APPLICATION NUMBER: 60/087609
; PRIOR FILING DATE: 1998-06-02
; PRIOR APPLICATION NUMBER: 60/087759
; PRIOR FILING DATE: 1998-06-02
; PRIOR APPLICATION NUMBER: 60/088028
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088029
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088033
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088167
; PRIOR FILING DATE: 1998-06-05
; PRIOR APPLICATION NUMBER: 60/088202
; PRIOR FILING DATE: 1998-06-05
; PRIOR APPLICATION NUMBER: 60/088212
; PRIOR FILING DATE: 1998-06-05
; PRIOR APPLICATION NUMBER: 60/088217
; PRIOR FILING DATE: 1998-06-05
; PRIOR APPLICATION NUMBER: 60/088326
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088655
; PRIOR FILING DATE: 1998-06-09
; PRIOR APPLICATION NUMBER: 60/088722
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088738
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088740
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088811
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088824
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088825
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088826
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088861
; PRIOR FILING DATE: 1998-06-11
; PRIOR APPLICATION NUMBER: 60/088863
; PRIOR FILING DATE: 1998-06-11
; PRIOR APPLICATION NUMBER: 60/088876
; PRIOR FILING DATE: 1998-06-11
; PRIOR APPLICATION NUMBER: 60/089090
; PRIOR FILING DATE: 1998-06-12
; PRIOR APPLICATION NUMBER: 60/089105
; PRIOR FILING DATE: 1998-06-12

; PRIOR APPLICATION NUMBER: 60/089512
; PRIOR FILING DATE: 1998-06-16
; PRIOR APPLICATION NUMBER: 60/089514
; PRIOR FILING DATE: 1998-06-16
; PRIOR APPLICATION NUMBER: 60/089538
; PRIOR FILING DATE: 1998-06-17
; PRIOR APPLICATION NUMBER: 60/089598
; PRIOR FILING DATE: 1998-06-17
; PRIOR APPLICATION NUMBER: 60/089653

Query Match 94.3%; Score 417; DB 14; Length 440;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

| | | | | | | | | | | | |
|----|-----|----------------|----------|--------|---------|-------|-------|-------|--------|------|-----|
| Qy | 26 | LRLLLLFSAAALIP | TDGQGNLF | TKDVT | VEGEVAT | ISQV | NSKSD | DDSVI | QLLNPN | RTIY | 85 |
| Db | 24 | LRLLLLFSAAALIP | TDGQGNLF | TKDVT | VEGEVAT | ISQV | NSKSD | DDSVI | QLLNPN | RTIY | 83 |
| Qy | 86 | FRDPRPLKDSR | FQLLNFS | SSELK | VS | LTNVS | IS | DEGRY | F | COLY | 145 |
| Db | 84 | FRDPRPLKDSR | FQLLNFS | SSELK | VS | LTNVS | IS | DEGRY | F | COLY | 143 |
| Qy | 146 | NLMIDIQKOT | AV | EGEEIE | VNCT | AM | ASKP | ATT | IR | FWK | 205 |
| Db | 144 | NLMIDIQKOT | AV | EGEEIE | VNCT | AM | ASKP | ATT | IR | FWK | 203 |
| Qy | 206 | MLKVHEDD | GV | PI | QV | EH | PA | VT | GN | LO | 265 |
| Db | 204 | MLKVHEDD | GV | PI | QV | EH | PA | VT | GN | LO | 263 |
| Qy | 266 | TCEAIGK | PQ | PM | VT | WVR | V | DD | MP | Q | 325 |
| Db | 264 | TCEAIGK | PQ | PM | VT | WVR | V | DD | MP | Q | 323 |
| Qy | 326 | YMLYV | DP | PT | T | I | P | P | T | T | 385 |
| Db | 324 | YMLYV | DP | PT | T | I | P | P | T | T | 383 |
| Qy | 386 | FAMLC | LI | IL | GR | YF | AR | H | K | G | 442 |
| Db | 384 | FAMLC | LI | IL | GR | YF | AR | H | K | G | 440 |

RESULT 58

US-10-176-488-34
; Sequence 34, Application US/10176488
; Publication No. US2003002721A1

GENERAL INFORMATION:

; APPLICANT: Baker, Kevin P.

; APPLICANT: Chen, Jian

; APPLICANT: Desnoyers, Luc

; APPLICANT: Goddard, Audrey

; APPLICANT: Godowski, Paul J.

; APPLICANT: Gurney, Austin L.

; APPLICANT: Pan, James

; APPLICANT: Smith, Victoria

; APPLICANT: Watanabe, Colin K.

; APPLICANT: Wood, William I.

; APPLICANT: Zhang, Zemin

; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: F3430R1C119

; CURRENT APPLICATION NUMBER: US/10/176,488

; CURRENT FILING DATE: 2002-06-21

; Prior Application removed - See File Wrapper or Palm

; NUMBER OF SEQ ID NOS: 612

; SEQ ID NO 34

; LENGTH: 440

; TYPE: PRT

; ORGANISM: Homo Sapien

US-10-176-488-34

Query Match

94.3%; Score 417; DB 14; Length 440;

Best Local Similarity 100.0%; Pred. No. 0;
Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 26 LRLLLLFSAALIPITGQGNLFKQVTVIEGEVATISCOVNSKSDSDSVIQLLNPRTIY 85
Db 24 LRLLLLFSAALIPITGQGNLFKQVTVIEGEVATISCOVNSKSDSDSVIQLLNPRTIY 83

Qy 86 FRDPRPKDSRFQLLNFSSSELKVSNTNVSISDEGRYFCOLYTDPPQESYTTITVLVPPR 145
Db 84 FRDPRPKDSRFQLLNFSSSELKVSNTNVSISDEGRYFCOLYTDPPQESYTTITVLVPPR 143

Qy 146 NLMIDIQKDTAVEGEEIEVNCTAMASKPATTIRWFKGNTLKGKSEVEEWSDMYTVTSOL 205
Db 144 NLMIDIQKDTAVEGEEIEVNCTAMASKPATTIRWFKGNTLKGKSEVEEWSDMYTVTSOL 203

Qy 206 MLKVHKEDDGPVICOVEHPAVTGNLQTOYRYLEVQYKPQVHIQMTYPLQGLTREGDALEL 265
Db 204 MLKVHKEDDGPVICOVEHPAVTGNLQTOYRYLEVQYKPQVHIQMTYPLQGLTREGDALEL 263

Qy 266 TCEAIGKQPQVMVWTVRVDDMPQHAVLSGPNLFINNLTNDNGTYRCEASNIVGKAHSD 325
Db 264 TCEAIGKQPQVMVWTVRVDDMPQHAVLSGPNLFINNLTNDNGTYRCEASNIVGKAHSD 323

Qy 326 YMLYVDPPTTIPPTTTTTTTTTTTTTTTTTTTTTITDTSRAGEEGSIRAVDHAVIGGVAVVV 385
Db 324 YMLYVDPPTTIPPTTTTTTTTTTTTTTTTTTTTTITDTSRAGEEGSIRAVDHAVIGGVAVVV 383

Qy 386 FAMLCLLIILGRYFARHKGTFTHEAKGADDAADATAIINABGGQNNSEKKEYFI 442
Db 384 FAMLCLLIILGRYFARHKGTFTHEAKGADDAADATAIINABGGQNNSEKKEYFI 440

RESULT 59
US-10-176-492-34
; Sequence 34, Application US/10176492
; Publication No. US20030027272A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C107
; CURRENT APPLICATION NUMBER: US/10/176,492
; CURRENT FILING DATE: 2002-06-21
; Prior application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 34
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-176-492-34

Query Match 94.3%; Score 417; DB 14; Length 440;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 26 LRLLLLFSAALIPITGQGNLFKQVTVIEGEVATISCOVNSKSDSDSVIQLLNPRTIY 85
Db 24 LRLLLLFSAALIPITGQGNLFKQVTVIEGEVATISCOVNSKSDSDSVIQLLNPRTIY 83

Qy 86 FRDPRPKDSRFQLLNFSSSELKVSNTNVSISDEGRYFCOLYTDPPQESYTTITVLVPPR 145
Db 84 FRDPRPKDSRFQLLNFSSSELKVSNTNVSISDEGRYFCOLYTDPPQESYTTITVLVPPR 143

Qy 146 NLMIDIQKDTAVEGEEIEVNCTAMASKPATTIRWFKGNTLKGKSEVEEWSDMYTVTSOL 205
Db 144 NLMIDIQKDTAVEGEEIEVNCTAMASKPATTIRWFKGNTLKGKSEVEEWSDMYTVTSOL 203

Qy 206 MLKVHKEDDGPVICOVEHPAVTGNLQTOYRYLEVQYKPQVHIQMTYPLQGLTREGDALEL 265
Db 204 MLKVHKEDDGPVICOVEHPAVTGNLQTOYRYLEVQYKPQVHIQMTYPLQGLTREGDALEL 263

Qy 266 TCEAIGKQPQVMVWTVRVDDMPQHAVLSGPNLFINNLTNDNGTYRCEASNIVGKAHSD 325
Db 264 TCEAIGKQPQVMVWTVRVDDMPQHAVLSGPNLFINNLTNDNGTYRCEASNIVGKAHSD 323

Qy 326 YMLYVDPPTTIPPTTTTTTTTTTTTTTTTTTTTTITDTSRAGEEGSIRAVDHAVIGGVAVVV 385
Db 324 YMLYVDPPTTIPPTTTTTTTTTTTTTTTTTTTTTITDTSRAGEEGSIRAVDHAVIGGVAVVV 383

Qy 386 FAMLCLLIILGRYFARHKGTFTHEAKGADDAADATAIINABGGQNNSEKKEYFI 442
Db 384 FAMLCLLIILGRYFARHKGTFTHEAKGADDAADATAIINABGGQNNSEKKEYFI 440

RESULT 60
US-10-176-747-34
; Sequence 34, Application US/10176747
; Publication No. US20030027273A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C92
; CURRENT APPLICATION NUMBER: US/10/176,747
; CURRENT FILING DATE: 2002-06-20
; Prior application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 34
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-176-747-34

Query Match 94.3%; Score 417; DB 14; Length 440;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 26 LRLLLLFSAALIPITGQGNLFKQVTVIEGEVATISCOVNSKSDSDSVIQLLNPRTIY 85
Db 24 LRLLLLFSAALIPITGQGNLFKQVTVIEGEVATISCOVNSKSDSDSVIQLLNPRTIY 83

Qy 86 FRDPRPKDSRFQLLNFSSSELKVSNTNVSISDEGRYFCOLYTDPPQESYTTITVLVPPR 145
Db 84 FRDPRPKDSRFQLLNFSSSELKVSNTNVSISDEGRYFCOLYTDPPQESYTTITVLVPPR 143

Qy 146 NLMIDIQKDTAVEGEEIEVNCTAMASKPATTIRWFKGNTLKGKSEVEEWSDMYTVTSOL 205
Db 144 NLMIDIQKDTAVEGEEIEVNCTAMASKPATTIRWFKGNTLKGKSEVEEWSDMYTVTSOL 203

Qy 206 MLKVHKEDDGPVICOVEHPAVTGNLQTOYRYLEVQYKPQVHIQMTYPLQGLTREGDALEL 265
Db 204 MLKVHKEDDGPVICOVEHPAVTGNLQTOYRYLEVQYKPQVHIQMTYPLQGLTREGDALEL 263

Qy 266 TCEAIGKQPQVMVWTVRVDDMPQHAVLSGPNLFINNLTNDNGTYRCEASNIVGKAHSD 325
Db 264 TCEAIGKQPQVMVWTVRVDDMPQHAVLSGPNLFINNLTNDNGTYRCEASNIVGKAHSD 323


```

; APPLICANT: Smith,Victoria
; APPLICANT: Watanabe,Colin K.
; APPLICANT: Wood,William I.
; APPLICANT: Zhang,Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C93
; CURRENT APPLICATION NUMBER: US/10/176,987
; CURRENT FILING DATE: 2002-06-21
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 34
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-176-987-34

Query Match          94.3%; Score 417; DB 14; Length 440;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 26 LRLLLLSAAALIPGTGQNLFTKDVTVIEGEVATISCOVNKSDSDSVIQLLNPNRQTIY 85
Db 24 LRLLLLSAAALIPGTGQNLFTKDVTVIEGEVATISCOVNKSDSDSVIQLLNPNRQTIY 83
Qy 86 FRDPRPLKDSRFOLLNFSSELKVSLSLTNVSISDEGRYFCOLYTDPPQESYTTITVLVPPR 145
Db 84 FRDPRPLKDSRFOLLNFSSELKVSLSLTNVSISDEGRYFCOLYTDPPQESYTTITVLVPPR 143
Qy 146 NLMDIQDQTAVGEEIEVNCCTAMASKPATIRWFKGNTLKGKSEVEEWSDMYTVTSOL 205
Db 144 NLMDIQDQTAVGEEIEVNCCTAMASKPATIRWFKGNTLKGKSEVEEWSDMYTVTSOL 203
Qy 206 MLKVHKEDDGVPCVQVEHPAVTGNLTQRYLEYQVKPVHIQMTYPLQGLTREGDALEL 265
Db 204 MLKVHKEDDGVPCVQVEHPAVTGNLTQRYLEYQVKPVHIQMTYPLQGLTREGDALEL 263
Qy 266 TCEAIGKQPQVMVWVRVDDMPQHAVLSGPNLFINNLKNTDNGTYRCEASNIVGKAHSD 325
Db 264 TCEAIGKQPQVMVWVRVDDMPQHAVLSGPNLFINNLKNTDNGTYRCEASNIVGKAHSD 323
Qy 326 YMLYVDPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 385
Db 324 YMLYVDPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 383
Qy 386 FAMLCLLIILGRYFARHKGTFTHEAKGADDAADATTAIINAEQGNNSSEKKEYFI 442
Db 384 FAMLCLLIILGRYFARHKGTFTHEAKGADDAADATTAIINAEQGNNSSEKKEYFI 440

RESULT 64
US-10-176-992-34
; Sequence 34, Application US/10176992
; Publication No. US20030027279A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C100
; CURRENT APPLICATION NUMBER: US/10/176,992
; CURRENT FILING DATE: 2002-06-21
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 34
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-176-992-34

Query Match          94.3%; Score 417; DB 14; Length 440;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 26 LRLLLLSAAALIPGTGQNLFTKDVTVIEGEVATISCOVNKSDSDSVIQLLNPNRQTIY 85
Db 24 LRLLLLSAAALIPGTGQNLFTKDVTVIEGEVATISCOVNKSDSDSVIQLLNPNRQTIY 83
Qy 86 FRDPRPLKDSRFOLLNFSSELKVSLSLTNVSISDEGRYFCOLYTDPPQESYTTITVLVPPR 145
Db 84 FRDPRPLKDSRFOLLNFSSELKVSLSLTNVSISDEGRYFCOLYTDPPQESYTTITVLVPPR 143
Qy 146 NLMDIQDQTAVGEEIEVNCCTAMASKPATIRWFKGNTLKGKSEVEEWSDMYTVTSOL 205
Db 144 NLMDIQDQTAVGEEIEVNCCTAMASKPATIRWFKGNTLKGKSEVEEWSDMYTVTSOL 203
Qy 206 MLKVHKEDDGVPCVQVEHPAVTGNLTQRYLEYQVKPVHIQMTYPLQGLTREGDALEL 265
Db 204 MLKVHKEDDGVPCVQVEHPAVTGNLTQRYLEYQVKPVHIQMTYPLQGLTREGDALEL 263
Qy 266 TCEAIGKQPQVMVWVRVDDMPQHAVLSGPNLFINNLKNTDNGTYRCEASNIVGKAHSD 325
Db 264 TCEAIGKQPQVMVWVRVDDMPQHAVLSGPNLFINNLKNTDNGTYRCEASNIVGKAHSD 323
Qy 326 YMLYVDPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 385
Db 324 YMLYVDPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 383
Qy 386 FAMLCLLIILGRYFARHKGTFTHEAKGADDAADATTAIINAEQGNNSSEKKEYFI 442
Db 384 FAMLCLLIILGRYFARHKGTFTHEAKGADDAADATTAIINAEQGNNSSEKKEYFI 440

; APPLICANT: Smith,Victoria
; APPLICANT: Watanabe,Colin K.
; APPLICANT: Wood,William I.
; APPLICANT: Zhang,Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C93
; CURRENT APPLICATION NUMBER: US/10/176,987
; CURRENT FILING DATE: 2002-06-21
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 34
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-176-987-34

Query Match          94.3%; Score 417; DB 14; Length 440;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 26 LRLLLLSAAALIPGTGQNLFTKDVTVIEGEVATISCOVNKSDSDSVIQLLNPNRQTIY 85
Db 24 LRLLLLSAAALIPGTGQNLFTKDVTVIEGEVATISCOVNKSDSDSVIQLLNPNRQTIY 83
Qy 86 FRDPRPLKDSRFOLLNFSSELKVSLSLTNVSISDEGRYFCOLYTDPPQESYTTITVLVPPR 145
Db 84 FRDPRPLKDSRFOLLNFSSELKVSLSLTNVSISDEGRYFCOLYTDPPQESYTTITVLVPPR 143
Qy 146 NLMDIQDQTAVGEEIEVNCCTAMASKPATIRWFKGNTLKGKSEVEEWSDMYTVTSOL 205
Db 144 NLMDIQDQTAVGEEIEVNCCTAMASKPATIRWFKGNTLKGKSEVEEWSDMYTVTSOL 203
Qy 206 MLKVHKEDDGVPCVQVEHPAVTGNLTQRYLEYQVKPVHIQMTYPLQGLTREGDALEL 265
Db 204 MLKVHKEDDGVPCVQVEHPAVTGNLTQRYLEYQVKPVHIQMTYPLQGLTREGDALEL 263
Qy 266 TCEAIGKQPQVMVWVRVDDMPQHAVLSGPNLFINNLKNTDNGTYRCEASNIVGKAHSD 325
Db 264 TCEAIGKQPQVMVWVRVDDMPQHAVLSGPNLFINNLKNTDNGTYRCEASNIVGKAHSD 323
Qy 326 YMLYVDPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 385
Db 324 YMLYVDPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 383
Qy 386 FAMLCLLIILGRYFARHKGTFTHEAKGADDAADATTAIINAEQGNNSSEKKEYFI 442
Db 384 FAMLCLLIILGRYFARHKGTFTHEAKGADDAADATTAIINAEQGNNSSEKKEYFI 440

; APPLICANT: Smith,Victoria
; APPLICANT: Watanabe,Colin K.
; APPLICANT: Wood,William I.
; APPLICANT: Zhang,Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C100
; CURRENT APPLICATION NUMBER: US/10/176,992
; CURRENT FILING DATE: 2002-06-21
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 34
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-176-992-34

Query Match          94.3%; Score 417; DB 14; Length 440;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 26 LRLLLLSAAALIPGTGQNLFTKDVTVIEGEVATISCOVNKSDSDSVIQLLNPNRQTIY 85
Db 24 LRLLLLSAAALIPGTGQNLFTKDVTVIEGEVATISCOVNKSDSDSVIQLLNPNRQTIY 83
Qy 86 FRDPRPLKDSRFOLLNFSSELKVSLSLTNVSISDEGRYFCOLYTDPPQESYTTITVLVPPR 145
Db 84 FRDPRPLKDSRFOLLNFSSELKVSLSLTNVSISDEGRYFCOLYTDPPQESYTTITVLVPPR 143
Qy 146 NLMDIQDQTAVGEEIEVNCCTAMASKPATIRWFKGNTLKGKSEVEEWSDMYTVTSOL 205
Db 144 NLMDIQDQTAVGEEIEVNCCTAMASKPATIRWFKGNTLKGKSEVEEWSDMYTVTSOL 203
Qy 206 MLKVHKEDDGVPCVQVEHPAVTGNLTQRYLEYQVKPVHIQMTYPLQGLTREGDALEL 265
Db 204 MLKVHKEDDGVPCVQVEHPAVTGNLTQRYLEYQVKPVHIQMTYPLQGLTREGDALEL 263
Qy 266 TCEAIGKQPQVMVWVRVDDMPQHAVLSGPNLFINNLKNTDNGTYRCEASNIVGKAHSD 325
Db 264 TCEAIGKQPQVMVWVRVDDMPQHAVLSGPNLFINNLKNTDNGTYRCEASNIVGKAHSD 323
Qy 326 YMLYVDPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 385
Db 324 YMLYVDPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 383
Qy 386 FAMLCLLIILGRYFARHKGTFTHEAKGADDAADATTAIINAEQGNNSSEKKEYFI 442
Db 384 FAMLCLLIILGRYFARHKGTFTHEAKGADDAADATTAIINAEQGNNSSEKKEYFI 440
```

```

; SEQ ID NO 34
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-176-992-34

Query Match          94.3%; Score 417; DB 14; Length 440;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 26 LRLLLLSAAALIPGTGQNLFTKDVTVIEGEVATISCOVNKSDSDSVIQLLNPNRQTIY 85
Db 24 LRLLLLSAAALIPGTGQNLFTKDVTVIEGEVATISCOVNKSDSDSVIQLLNPNRQTIY 83
Qy 86 FRDPRPLKDSRFOLLNFSSELKVSLSLTNVSISDEGRYFCOLYTDPPQESYTTITVLVPPR 145
Db 84 FRDPRPLKDSRFOLLNFSSELKVSLSLTNVSISDEGRYFCOLYTDPPQESYTTITVLVPPR 143
Qy 146 NLMDIQDQTAVGEEIEVNCCTAMASKPATIRWFKGNTLKGKSEVEEWSDMYTVTSOL 205
Db 144 NLMDIQDQTAVGEEIEVNCCTAMASKPATIRWFKGNTLKGKSEVEEWSDMYTVTSOL 203
Qy 206 MLKVHKEDDGVPCVQVEHPAVTGNLTQRYLEYQVKPVHIQMTYPLQGLTREGDALEL 265
Db 204 MLKVHKEDDGVPCVQVEHPAVTGNLTQRYLEYQVKPVHIQMTYPLQGLTREGDALEL 263
Qy 266 TCEAIGKQPQVMVWVRVDDMPQHAVLSGPNLFINNLKNTDNGTYRCEASNIVGKAHSD 325
Db 264 TCEAIGKQPQVMVWVRVDDMPQHAVLSGPNLFINNLKNTDNGTYRCEASNIVGKAHSD 323
Qy 326 YMLYVDPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 385
Db 324 YMLYVDPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 383
Qy 386 FAMLCLLIILGRYFARHKGTFTHEAKGADDAADATTAIINAEQGNNSSEKKEYFI 442
Db 384 FAMLCLLIILGRYFARHKGTFTHEAKGADDAADATTAIINAEQGNNSSEKKEYFI 440

RESULT 65
US-10-176-993-34
; Sequence 34, Application US/10176993
; Publication No. US20030027280A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C89
; CURRENT APPLICATION NUMBER: US/10/176,993
; CURRENT FILING DATE: 2002-06-20
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 34
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-176-993-34

Query Match          94.3%; Score 417; DB 14; Length 440;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 26 LRLLLLSAAALIPGTGQNLFTKDVTVIEGEVATISCOVNKSDSDSVIQLLNPNRQTIY 85
```

Db 24 LRLLLLFSAALIPGTGQNLFTKDVTVIEGEVATISCVQNKSDSDSVIQLLNPRTIY 83
Qy 86 FRDRLKDSRFQNLNFSSELKVLSTNVISDSGRYFCQLYTDPPOESYTTITVLVPPR 145
Db 84 FRDRLKDSRFQNLNFSSELKVLSTNVISDSGRYFCQLYTDPPOESYTTITVLVPPR 143
Qy 146 NLMDIQDQTAVEGEETEVNCTAMASKPATIRFWKGNTELKKGSEVEEWSDMYTVTSOL 205
Db 144 NLMDIQDQTAVEGEETEVNCTAMASKPATIRFWKGNTELKKGSEVEEWSDMYTVTSOL 203
Qy 206 MLKVHKEDDGPVVCQVEHPAVTGNLTQRYLEVQYKPVQVHIQMTYPLQGLTREGDALEL 265
Db 204 MLKVHKEDDGPVVCQVEHPAVTGNLTQRYLEVQYKPVQVHIQMTYPLQGLTREGDALEL 263
Qy 266 TCEAIGKQPQVMVTVVRVDDMPQHAVLSGNLFINNLTNDNGTYRCEASNIVGKAHSD 325
Db 264 TCEAIGKQPQVMVTVVRVDDMPQHAVLSGNLFINNLTNDNGTYRCEASNIVGKAHSD 323
Qy 326 YMLVYVDPPTTIPPTTT 442
Db 324 YMLVYVDPPTTIPPTTT 440
Qy 386 FAMLCLLIILGRYPARHKGYTFTHKAGDADAADTAIINAEQQNNSEKKEYFI 442
Db 384 FAMLCLLIILGRYPARHKGYTFTHKAGDADAADTAIINAEQQNNSEKKEYFI 440

RESULT 66

US-10-184-658-34
; Sequence 34, Application US/10184658
; Publication No. US20030027281A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C228
; CURRENT APPLICATION NUMBER: US/10/184,658
; CURRENT FILING DATE: 2002-06-28
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 34
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-184-658-34

Query Match 94.3%; Score 417; DB 14; Length 440;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 26 LRLLLLFSAALIPGTGQNLFTKDVTVIEGEVATISCVQNKSDSDSVIQLLNPRTIY 85
Db 24 LRLLLLFSAALIPGTGQNLFTKDVTVIEGEVATISCVQNKSDSDSVIQLLNPRTIY 83
Qy 86 FRDRLKDSRFQNLNFSSELKVLSTNVISDSGRYFCQLYTDPPOESYTTITVLVPPR 145
Db 84 FRDRLKDSRFQNLNFSSELKVLSTNVISDSGRYFCQLYTDPPOESYTTITVLVPPR 143
Qy 146 NLMDIQDQTAVEGEETEVNCTAMASKPATIRFWKGNTELKKGSEVEEWSDMYTVTSOL 205
Db 144 NLMDIQDQTAVEGEETEVNCTAMASKPATIRFWKGNTELKKGSEVEEWSDMYTVTSOL 203

Qy 206 MLKVHKEDDGPVVCQVEHPAVTGNLTQRYLEVQYKPVQVHIQMTYPLQGLTREGDALEL 265
Db 204 MLKVHKEDDGPVVCQVEHPAVTGNLTQRYLEVQYKPVQVHIQMTYPLQGLTREGDALEL 263
Qy 266 TCEAIGKQPQVMVTVVRVDDMPQHAVLSGNLFINNLTNDNGTYRCEASNIVGKAHSD 325
Db 264 TCEAIGKQPQVMVTVVRVDDMPQHAVLSGNLFINNLTNDNGTYRCEASNIVGKAHSD 323
Qy 326 YMLVYVDPPTTIPPTTT 442
Db 324 YMLVYVDPPTTIPPTTT 440
Qy 386 FAMLCLLIILGRYPARHKGYTFTHKAGDADAADTAIINAEQQNNSEKKEYFI 442
Db 384 FAMLCLLIILGRYPARHKGYTFTHKAGDADAADTAIINAEQQNNSEKKEYFI 440

RESULT 67

US-10-176-991-34
; Sequence 34, Application US/10176991
; Publication No. US20030027324A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C122
; CURRENT APPLICATION NUMBER: US/10/176,991
; CURRENT FILING DATE: 2002-06-21
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 34
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-176-991-34

Query Match 94.3%; Score 417; DB 14; Length 440;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 26 LRLLLLFSAALIPGTGQNLFTKDVTVIEGEVATISCVQNKSDSDSVIQLLNPRTIY 85
Db 24 LRLLLLFSAALIPGTGQNLFTKDVTVIEGEVATISCVQNKSDSDSVIQLLNPRTIY 83
Qy 86 FRDRLKDSRFQNLNFSSELKVLSTNVISDSGRYFCQLYTDPPOESYTTITVLVPPR 145
Db 84 FRDRLKDSRFQNLNFSSELKVLSTNVISDSGRYFCQLYTDPPOESYTTITVLVPPR 143
Qy 146 NLMDIQDQTAVEGEETEVNCTAMASKPATIRFWKGNTELKKGSEVEEWSDMYTVTSOL 205
Db 144 NLMDIQDQTAVEGEETEVNCTAMASKPATIRFWKGNTELKKGSEVEEWSDMYTVTSOL 203
Qy 206 MLKVHKEDDGPVVCQVEHPAVTGNLTQRYLEVQYKPVQVHIQMTYPLQGLTREGDALEL 265
Db 204 MLKVHKEDDGPVVCQVEHPAVTGNLTQRYLEVQYKPVQVHIQMTYPLQGLTREGDALEL 263
Qy 266 TCEAIGKQPQVMVTVVRVDDMPQHAVLSGNLFINNLTNDNGTYRCEASNIVGKAHSD 325
Db 264 TCEAIGKQPQVMVTVVRVDDMPQHAVLSGNLFINNLTNDNGTYRCEASNIVGKAHSD 323
Qy 326 YMLVYVDPPTTIPPTTT 442
Db 324 YMLVYVDPPTTIPPTTT 440


```
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C18
; CURRENT APPLICATION NUMBER: US/10/173,705
; CURRENT FILING DATE: 2002-06-17
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 34
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-173-705-34

Query Match          94.3%; Score 417; DB 14; Length 440;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 26 LRLLLLFSAALIPGTGQNLFTKQVTVIEGEVATISCVQNKSDSDSVIQLLNPNRTIY 85
Db 24 LRLLLLFSAALIPGTGQNLFTKQVTVIEGEVATISCVQNKSDSDSVIQLLNPNRTIY 83

Qy 86 FRDPRPLKDSRFQLLNPFSSSELKVSLSNVSISDEGRYFCQLYTDPPQESYTTITVLVPPR 145
Db 84 FRDPRPLKDSRFQLLNPFSSSELKVSLSNVSISDEGRYFCQLYTDPPQESYTTITVLVPPR 143

Qy 146 NLMDIQKDTAVEGEEIEVNCTAMASKPATIRFKGNTELKKGSEVEWSDMYTTSOL 205
Db 144 NLMDIQKDTAVEGEEIEVNCTAMASKPATIRFKGNTELKKGSEVEWSDMYTTSOL 203

Qy 206 MLKVHKEDDGVPCVQVEHPAVTGNLTQRYLEYQYKPOVHIQMTYPLQGLTREGDALEL 265
Db 204 MLKVHKEDDGVPCVQVEHPAVTGNLTQRYLEYQYKPOVHIQMTYPLQGLTREGDALEL 263

Qy 266 TCEAIGKQPQPMVMTWRVDDDEMPQHAVLSGNLFINLNKTDNGTYRCEASNIVGKAHSD 325
Db 264 TCEAIGKQPQPMVMTWRVDDDEMPQHAVLSGNLFINLNKTDNGTYRCEASNIVGKAHSD 323

Qy 326 YMLYVYDPPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 385
Db 324 YMLYVYDPPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 383

Qy 386 FAMLCLLIILGRYFARHKGTFTHEAKGADDAADATTAIINAEQQNNSEKKEYFI 442
Db 384 FAMLCLLIILGRYFARHKGTFTHEAKGADDAADATTAIINAEQQNNSEKKEYFI 440

RESULT 71
US-10-174-576-34
; Sequence 34, Application US/10174576
; Publication No. US20030032104A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C17
; CURRENT APPLICATION NUMBER: US/10/174,585
; CURRENT FILING DATE: 2002-06-18
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 34
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-174-585-34

Query Match          94.3%; Score 417; DB 14; Length 440;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 26 LRLLLLFSAALIPGTGQNLFTKQVTVIEGEVATISCVQNKSDSDSVIQLLNPNRTIY 85
Db 24 LRLLLLFSAALIPGTGQNLFTKQVTVIEGEVATISCVQNKSDSDSVIQLLNPNRTIY 83

Qy 86 FRDPRPLKDSRFQLLNPFSSSELKVSLSNVSISDEGRYFCQLYTDPPQESYTTITVLVPPR 145
Db 84 FRDPRPLKDSRFQLLNPFSSSELKVSLSNVSISDEGRYFCQLYTDPPQESYTTITVLVPPR 143

Qy 146 NLMDIQKDTAVEGEEIEVNCTAMASKPATIRFKGNTELKKGSEVEWSDMYTTSOL 205
Db 144 NLMDIQKDTAVEGEEIEVNCTAMASKPATIRFKGNTELKKGSEVEWSDMYTTSOL 203

Qy 206 MLKVHKEDDGVPCVQVEHPAVTGNLTQRYLEYQYKPOVHIQMTYPLQGLTREGDALEL 265
Db 204 MLKVHKEDDGVPCVQVEHPAVTGNLTQRYLEYQYKPOVHIQMTYPLQGLTREGDALEL 263

Qy 266 TCEAIGKQPQPMVMTWRVDDDEMPQHAVLSGNLFINLNKTDNGTYRCEASNIVGKAHSD 325
Db 264 TCEAIGKQPQPMVMTWRVDDDEMPQHAVLSGNLFINLNKTDNGTYRCEASNIVGKAHSD 323

Qy 326 YMLYVYDPPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 385
Db 324 YMLYVYDPPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 383

Qy 386 FAMLCLLIILGRYFARHKGTFTHEAKGADDAADATTAIINAEQQNNSEKKEYFI 442
Db 384 FAMLCLLIILGRYFARHKGTFTHEAKGADDAADATTAIINAEQQNNSEKKEYFI 440
```

```
US-10-174-576-34

Query Match          94.3%; Score 417; DB 14; Length 440;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 26 LRLLLLFSAALIPGTGQNLFTKQVTVIEGEVATISCVQNKSDSDSVIQLLNPNRTIY 85
Db 24 LRLLLLFSAALIPGTGQNLFTKQVTVIEGEVATISCVQNKSDSDSVIQLLNPNRTIY 83

Qy 86 FRDPRPLKDSRFQLLNPFSSSELKVSLSNVSISDEGRYFCQLYTDPPQESYTTITVLVPPR 145
Db 84 FRDPRPLKDSRFQLLNPFSSSELKVSLSNVSISDEGRYFCQLYTDPPQESYTTITVLVPPR 143

Qy 146 NLMDIQKDTAVEGEEIEVNCTAMASKPATIRFKGNTELKKGSEVEWSDMYTTSOL 205
Db 144 NLMDIQKDTAVEGEEIEVNCTAMASKPATIRFKGNTELKKGSEVEWSDMYTTSOL 203

Qy 206 MLKVHKEDDGVPCVQVEHPAVTGNLTQRYLEYQYKPOVHIQMTYPLQGLTREGDALEL 265
Db 204 MLKVHKEDDGVPCVQVEHPAVTGNLTQRYLEYQYKPOVHIQMTYPLQGLTREGDALEL 263

Qy 266 TCEAIGKQPQPMVMTWRVDDDEMPQHAVLSGNLFINLNKTDNGTYRCEASNIVGKAHSD 325
Db 264 TCEAIGKQPQPMVMTWRVDDDEMPQHAVLSGNLFINLNKTDNGTYRCEASNIVGKAHSD 323

Qy 326 YMLYVYDPPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 385
Db 324 YMLYVYDPPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 383

Qy 386 FAMLCLLIILGRYFARHKGTFTHEAKGADDAADATTAIINAEQQNNSEKKEYFI 442
Db 384 FAMLCLLIILGRYFARHKGTFTHEAKGADDAADATTAIINAEQQNNSEKKEYFI 440

RESULT 72
US-10-174-585-34
; Sequence 34, Application US/10174585
; Publication No. US20030032105A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C17
; CURRENT APPLICATION NUMBER: US/10/174,585
; CURRENT FILING DATE: 2002-06-18
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 34
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-174-585-34

Query Match          94.3%; Score 417; DB 14; Length 440;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 26 LRLLLLFSAALIPGTGQNLFTKQVTVIEGEVATISCVQNKSDSDSVIQLLNPNRTIY 85
Db 24 LRLLLLFSAALIPGTGQNLFTKQVTVIEGEVATISCVQNKSDSDSVIQLLNPNRTIY 83

Qy 86 FRDPRPLKDSRFQLLNPFSSSELKVSLSNVSISDEGRYFCQLYTDPPQESYTTITVLVPPR 145
Db 84 FRDPRPLKDSRFQLLNPFSSSELKVSLSNVSISDEGRYFCQLYTDPPQESYTTITVLVPPR 143
```


Db 84 FRDRLPKDSRFQLLNFSSELKVSLSNVSISDEGRYFCQLYTDPPQESYTTITVLVPPR 143
QY 146 NLMDIQKOTAVAGEEIEVNVCTAMASKPATIRWFKGNTELKKGSEVEEWSDMYTVTSOL 205
Db 144 NLMDIQKOTAVAGEEIEVNVCTAMASKPATIRWFKGNTELKKGSEVEEWSDMYTVTSOL 203
QY 206 MLKVHKEDDGPVVICQVEHPAVTGNLTQRYLEVQYKPVHIOQWTPYLOGLTREGDALEL 265
Db 204 MLKVHKEDDGPVVICQVEHPAVTGNLTQRYLEVQYKPVHIOQWTPYLOGLTREGDALEL 263
QY 266 TCEAIGKQPQPMVWTVVRVDDDEMPQHAVLSGPNLFINNLKNTDNGTYRCEASNIVGKAHSD 325
Db 264 TCEAIGKQPQPMVWTVVRVDDDEMPQHAVLSGPNLFINNLKNTDNGTYRCEASNIVGKAHSD 323
QY 326 YMLYVYDPPPTTIPPTTT 385
Db 324 YMLYVYDPPPTTIPPTTT 383
QY 386 FAMLCLLIILGRYFARHKGTYFTHEAKGADDAADATTAIINAEQGQNNSEKKEYFI 442
Db 384 FAMLCLLIILGRYFARHKGTYFTHEAKGADDAADATTAIINAEQGQNNSEKKEYFI 440

RESULT 73

US-10-174-586-34
; Sequence 34, Application US/10174586
; Publication No. US20030032106A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: F3430R1C24
; CURRENT FILING DATE: 2002-06-18
; PRIOR APPLICATION NUMBER: 60/052586
; PRIOR FILING DATE: 1997-09-18
; PRIOR APPLICATION NUMBER: 60/059263
; PRIOR FILING DATE: 1997-09-18
; PRIOR APPLICATION NUMBER: 60/059266
; PRIOR FILING DATE: 1997-09-18
; PRIOR APPLICATION NUMBER: 60/062250
; PRIOR FILING DATE: 1997-10-17
; PRIOR APPLICATION NUMBER: 60/063120
; PRIOR FILING DATE: 1997-10-24
; PRIOR APPLICATION NUMBER: 60/063121
; PRIOR FILING DATE: 1997-10-24
; PRIOR APPLICATION NUMBER: 60/063486
; PRIOR FILING DATE: 1997-10-21
; PRIOR APPLICATION NUMBER: 60/063540
; PRIOR FILING DATE: 1997-10-28
; PRIOR APPLICATION NUMBER: 60/063541
; PRIOR FILING DATE: 1997-10-28
; PRIOR APPLICATION NUMBER: 60/063544
; PRIOR FILING DATE: 1997-10-28
; PRIOR APPLICATION NUMBER: 60/063564
; PRIOR FILING DATE: 1997-10-28
; PRIOR APPLICATION NUMBER: 60/063734
; PRIOR FILING DATE: 1997-10-29
; PRIOR APPLICATION NUMBER: 60/063870
; PRIOR FILING DATE: 1997-10-31
; PRIOR APPLICATION NUMBER: 60/064103
; PRIOR FILING DATE: 1997-10-31
; PRIOR APPLICATION NUMBER: 60/065311
; PRIOR FILING DATE: 1997-11-13
; PRIOR APPLICATION NUMBER: 60/066120
; PRIOR FILING DATE: 1997-11-21
; PRIOR APPLICATION NUMBER: 60/066466
; PRIOR FILING DATE: 1997-11-24
; PRIOR APPLICATION NUMBER: 60/066772
; PRIOR FILING DATE: 1997-11-24
; PRIOR APPLICATION NUMBER: 60/069335
; PRIOR FILING DATE: 1997-12-11
; PRIOR APPLICATION NUMBER: 60/069425

Query Match 94.3%; Score 417; DB 14; Length 440;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 26 LRLLLLFSAALIPTDGQNLFTKQVTVIEGEVATISCVQNKSDSDSVIQLLNPRTIY 85
Db 24 LRLLLLFSAALIPTDGQNLFTKQVTVIEGEVATISCVQNKSDSDSVIQLLNPRTIY 83
QY 86 FRDRLPKDSRFQLLNFSSELKVSLSNVSISDEGRYFCQLYTDPPQESYTTITVLVPPR 145
Db 84 FRDRLPKDSRFQLLNFSSELKVSLSNVSISDEGRYFCQLYTDPPQESYTTITVLVPPR 143
QY 146 NLMDIQKOTAVAGEEIEVNVCTAMASKPATIRWFKGNTELKKGSEVEEWSDMYTVTSOL 205
Db 144 NLMDIQKOTAVAGEEIEVNVCTAMASKPATIRWFKGNTELKKGSEVEEWSDMYTVTSOL 203
QY 206 MLKVHKEDDGPVVICQVEHPAVTGNLTQRYLEVQYKPVHIOQWTPYLOGLTREGDALEL 265
Db 204 MLKVHKEDDGPVVICQVEHPAVTGNLTQRYLEVQYKPVHIOQWTPYLOGLTREGDALEL 263

QY 266 TCEAIGKQPQPMVWTVVRVDDDEMPQHAVLSGPNLFINNLKNTDNGTYRCEASNIVGKAHSD 325
Db 264 TCEAIGKQPQPMVWTVVRVDDDEMPQHAVLSGPNLFINNLKNTDNGTYRCEASNIVGKAHSD 323
QY 326 YMLYVYDPPPTTIPPTTT 385
Db 324 YMLYVYDPPPTTIPPTTT 383
QY 386 FAMLCLLIILGRYFARHKGTYFTHEAKGADDAADATTAIINAEQGQNNSEKKEYFI 442
Db 384 FAMLCLLIILGRYFARHKGTYFTHEAKGADDAADATTAIINAEQGQNNSEKKEYFI 440

RESULT 74

US-10-175-747-34
; Sequence 34, Application US/10175747
; Publication No. US20030032107A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: F3430R1C44
; CURRENT FILING DATE: 2002-06-19
; PRIOR APPLICATION NUMBER: 10/052586
; PRIOR FILING DATE: 2002-01-15
; PRIOR APPLICATION NUMBER: 60/059263
; PRIOR FILING DATE: 1997-09-18
; PRIOR APPLICATION NUMBER: 60/059266
; PRIOR FILING DATE: 1997-09-18
; PRIOR APPLICATION NUMBER: 60/062250
; PRIOR FILING DATE: 1997-10-17
; PRIOR APPLICATION NUMBER: 60/063120
; PRIOR FILING DATE: 1997-10-24
; PRIOR APPLICATION NUMBER: 60/063121
; PRIOR FILING DATE: 1997-10-24
; PRIOR APPLICATION NUMBER: 60/063486
; PRIOR FILING DATE: 1997-10-21
; PRIOR APPLICATION NUMBER: 60/063540
; PRIOR FILING DATE: 1997-10-28
; PRIOR APPLICATION NUMBER: 60/063541
; PRIOR FILING DATE: 1997-10-28
; PRIOR APPLICATION NUMBER: 60/063544
; PRIOR FILING DATE: 1997-10-28
; PRIOR APPLICATION NUMBER: 60/063564
; PRIOR FILING DATE: 1997-10-28
; PRIOR APPLICATION NUMBER: 60/063734
; PRIOR FILING DATE: 1997-10-29
; PRIOR APPLICATION NUMBER: 60/063870
; PRIOR FILING DATE: 1997-10-31
; PRIOR APPLICATION NUMBER: 60/064103
; PRIOR FILING DATE: 1997-10-31
; PRIOR APPLICATION NUMBER: 60/065311
; PRIOR FILING DATE: 1997-11-13
; PRIOR APPLICATION NUMBER: 60/066120
; PRIOR FILING DATE: 1997-11-21
; PRIOR APPLICATION NUMBER: 60/066466
; PRIOR FILING DATE: 1997-11-24
; PRIOR APPLICATION NUMBER: 60/066772
; PRIOR FILING DATE: 1997-11-24
; PRIOR APPLICATION NUMBER: 60/069335
; PRIOR FILING DATE: 1997-12-11
; PRIOR APPLICATION NUMBER: 60/069425

;; PRIOR FILING DATE: 1997-12-12
;; PRIOR APPLICATION NUMBER: 60/059870
;; PRIOR FILING DATE: 1997-12-17
;; PRIOR APPLICATION NUMBER: 60/068017
;; PRIOR FILING DATE: 1997-12-18
;; PRIOR APPLICATION NUMBER: 60/077450
;; PRIOR FILING DATE: 1998-03-10
;; PRIOR APPLICATION NUMBER: 60/077632
;; PRIOR FILING DATE: 1998-03-11
;; PRIOR APPLICATION NUMBER: 60/077649
;; PRIOR FILING DATE: 1998-03-11
;; PRIOR APPLICATION NUMBER: 60/078866
;; PRIOR FILING DATE: 1998-03-20
;; PRIOR APPLICATION NUMBER: 60/078939
;; PRIOR FILING DATE: 1998-03-20
;; PRIOR APPLICATION NUMBER: 60/079664
;; PRIOR FILING DATE: 1998-03-27
;; PRIOR APPLICATION NUMBER: 60/079786
;; PRIOR FILING DATE: 1998-03-27
;; PRIOR APPLICATION NUMBER: 60/080107
;; PRIOR FILING DATE: 1998-03-31
;; PRIOR APPLICATION NUMBER: 60/080194
;; PRIOR FILING DATE: 1998-03-31
;; PRIOR APPLICATION NUMBER: 60/080327
;; PRIOR FILING DATE: 1998-04-01
;; PRIOR APPLICATION NUMBER: 60/080333
;; PRIOR FILING DATE: 1998-04-01
;; PRIOR APPLICATION NUMBER: 60/081049
;; PRIOR FILING DATE: 1998-04-08
;; PRIOR APPLICATION NUMBER: 60/081070
;; PRIOR FILING DATE: 1998-04-08
;; PRIOR APPLICATION NUMBER: 60/081195
;; PRIOR FILING DATE: 1998-04-09
;; PRIOR APPLICATION NUMBER: 60/081838
;; PRIOR FILING DATE: 1998-04-15
;; PRIOR APPLICATION NUMBER: 60/082568
;; PRIOR FILING DATE: 1998-04-21
;; PRIOR APPLICATION NUMBER: 60/082569
;; PRIOR FILING DATE: 1998-04-21
;; PRIOR APPLICATION NUMBER: 60/082704
;; PRIOR FILING DATE: 1998-04-22
;; PRIOR APPLICATION NUMBER: 60/082797
;; PRIOR FILING DATE: 1998-04-22
;; PRIOR APPLICATION NUMBER: 60/083322
;; PRIOR FILING DATE: 1998-04-28
;; PRIOR APPLICATION NUMBER: 60/083495
;; PRIOR FILING DATE: 1998-04-29
;; PRIOR APPLICATION NUMBER: 60/083496
;; PRIOR FILING DATE: 1998-04-29
;; PRIOR APPLICATION NUMBER: 60/083499
;; PRIOR FILING DATE: 1998-04-29
;; PRIOR APPLICATION NUMBER: 60/083559
;; PRIOR FILING DATE: 1998-04-29
;; PRIOR APPLICATION NUMBER: 60/084366
;; PRIOR FILING DATE: 1998-05-05
;; PRIOR APPLICATION NUMBER: 60/084414
;; PRIOR FILING DATE: 1998-05-06
;; PRIOR APPLICATION NUMBER: 60/084639
;; PRIOR FILING DATE: 1998-05-07
;; PRIOR APPLICATION NUMBER: 60/084640
;; PRIOR FILING DATE: 1998-05-07
;; PRIOR APPLICATION NUMBER: 60/084643
;; PRIOR FILING DATE: 1998-05-07
;; PRIOR APPLICATION NUMBER: 60/085573
;; PRIOR FILING DATE: 1998-05-15
;; PRIOR APPLICATION NUMBER: 60/085579
;; PRIOR FILING DATE: 1998-05-15
;; PRIOR APPLICATION NUMBER: 60/085580
;; PRIOR FILING DATE: 1998-05-15
;; PRIOR APPLICATION NUMBER: 60/085582
;; PRIOR FILING DATE: 1998-05-15
;; PRIOR APPLICATION NUMBER: 60/085700
;; PRIOR FILING DATE: 1998-05-15

;; PRIOR APPLICATION NUMBER: 60/086023
;; PRIOR FILING DATE: 1998-05-18
;; PRIOR APPLICATION NUMBER: 60/086392
;; PRIOR FILING DATE: 1998-05-22
;; PRIOR APPLICATION NUMBER: 60/086486
;; PRIOR FILING DATE: 1998-05-22
;; PRIOR APPLICATION NUMBER: 60/087098
;; PRIOR FILING DATE: 1998-05-28
;; PRIOR APPLICATION NUMBER: 60/087208
;; PRIOR FILING DATE: 1998-05-28
;; PRIOR APPLICATION NUMBER: 60/087609
;; PRIOR FILING DATE: 1998-06-02
;; PRIOR APPLICATION NUMBER: 60/087759
;; PRIOR FILING DATE: 1998-06-02
;; PRIOR APPLICATION NUMBER: 60/087827
;; PRIOR FILING DATE: 1998-06-03
;; PRIOR APPLICATION NUMBER: 60/088025
;; PRIOR FILING DATE: 1998-06-04
;; PRIOR APPLICATION NUMBER: 60/088028
;; PRIOR FILING DATE: 1998-06-04
;; PRIOR APPLICATION NUMBER: 60/088029
;; PRIOR FILING DATE: 1998-06-04
;; PRIOR APPLICATION NUMBER: 60/088033
;; PRIOR FILING DATE: 1998-06-04
;; PRIOR APPLICATION NUMBER: 60/088167
;; PRIOR FILING DATE: 1998-06-05
;; PRIOR APPLICATION NUMBER: 60/088202
;; PRIOR FILING DATE: 1998-06-05
;; PRIOR APPLICATION NUMBER: 60/088212
;; PRIOR FILING DATE: 1998-06-05
;; PRIOR APPLICATION NUMBER: 60/088217
;; PRIOR FILING DATE: 1998-06-05
;; PRIOR APPLICATION NUMBER: 60/088326
;; PRIOR FILING DATE: 1998-06-04
;; PRIOR APPLICATION NUMBER: 60/088655
;; PRIOR FILING DATE: 1998-06-09
;; PRIOR APPLICATION NUMBER: 60/088722
;; PRIOR FILING DATE: 1998-06-10
;; PRIOR APPLICATION NUMBER: 60/088738
;; PRIOR FILING DATE: 1998-06-10
;; PRIOR APPLICATION NUMBER: 60/088740
;; PRIOR FILING DATE: 1998-06-10
;; PRIOR APPLICATION NUMBER: 60/088811
;; PRIOR FILING DATE: 1998-06-10
;; PRIOR APPLICATION NUMBER: 60/088824
;; PRIOR FILING DATE: 1998-06-10
;; PRIOR APPLICATION NUMBER: 60/088825
;; PRIOR FILING DATE: 1998-06-10
;; PRIOR APPLICATION NUMBER: 60/088826
;; PRIOR FILING DATE: 1998-06-10
;; PRIOR APPLICATION NUMBER: 60/088861
;; PRIOR FILING DATE: 1998-06-11
;; PRIOR APPLICATION NUMBER: 60/088863
;; PRIOR FILING DATE: 1998-06-11
;; PRIOR APPLICATION NUMBER: 60/088876
;; PRIOR FILING DATE: 1998-06-11
;; PRIOR APPLICATION NUMBER: 60/089090
;; PRIOR FILING DATE: 1998-06-12
;; PRIOR APPLICATION NUMBER: 60/089105
;; PRIOR FILING DATE: 1998-06-12
;; PRIOR APPLICATION NUMBER: 60/089512
;; PRIOR FILING DATE: 1998-06-16
;; PRIOR APPLICATION NUMBER: 60/089514
;; PRIOR FILING DATE: 1998-06-16
;; PRIOR APPLICATION NUMBER: 60/089538
;; PRIOR FILING DATE: 1998-06-17
;; PRIOR APPLICATION NUMBER: 60/089598
;; PRIOR FILING DATE: 1998-06-17
;; PRIOR APPLICATION NUMBER: 60/089653

Query Match 94.3%; Score 417; DB 14; Length 440;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.

OM protein - protein search, using sw model

Run on: June 28, 2005, 10:08:59 ; Search time 30.659 Seconds
(without alignments)
1076.191 Million cell updates/sec

Title: US-10-622-237-2

Perfect score: 442

Sequence: 1 MASVLPSSGQCAAAAAA.....AIINAEQQNNSEKEYFI 442

Scoring table:

Gapop 60.0 , Gapext 60.0

Searched: 513545 seqs, 74649064 residues

Word size : 0

Total number of hits satisfying chosen parameters: 513545

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 150 summaries

Database :

Issued Patents AA.*

1: /cgm2_6/ptodata/1/iaa/5A_COMB.pep.*

2: /cgm2_6/ptodata/1/iaa/5B_COMB.pep.*

3: /cgm2_6/ptodata/1/iaa/6A_COMB.pep.*

4: /cgm2_6/ptodata/1/iaa/6B_COMB.pep.*

5: /cgm2_6/ptodata/1/iaa/PCTUS_COMB.pep.*

6: /cgm2_6/ptodata/1/iaa/backfiles1.pep.*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | ID | Description |
|------------|-------|-------------|--------|----|----------------------|
| 1 | 442 | 100.0 | 442 | 4 | US-09-778-510-20 |
| 2 | 442 | 100.0 | 442 | 4 | US-09-930-803-1 |
| 3 | 417 | 94.3 | 440 | 4 | US-03-866-028-61 |
| 4 | 417 | 94.3 | 440 | 4 | US-09-944-457-61 |
| 5 | 150 | 33.9 | 423 | 4 | US-09-778-510-22 |
| 6 | 15 | 3.4 | 41 | 4 | US-09-060-767B-5 |
| 7 | 14 | 3.2 | 130 | 3 | US-08-700-651-9 |
| 8 | 14 | 3.2 | 130 | 3 | US-08-928-361B-14 |
| 9 | 14 | 3.2 | 130 | 4 | US-09-588-995A-14 |
| 10 | 14 | 3.2 | 175 | 3 | US-08-700-651-12 |
| 11 | 14 | 3.2 | 175 | 3 | US-08-928-361B-17 |
| 12 | 14 | 3.2 | 175 | 4 | US-09-588-995A-17 |
| 13 | 14 | 3.2 | 197 | 4 | US-09-248-796A-21069 |
| 14 | 14 | 3.2 | 216 | 3 | US-08-928-361B-8 |
| 15 | 14 | 3.2 | 216 | 3 | US-08-928-361B-27 |
| 16 | 14 | 3.2 | 216 | 4 | US-09-588-995A-8 |
| 17 | 14 | 3.2 | 249 | 3 | US-08-700-651-15 |
| 18 | 14 | 3.2 | 249 | 3 | US-08-928-361B-20 |
| 19 | 14 | 3.2 | 249 | 4 | US-09-588-995A-20 |
| 20 | 14 | 3.2 | 887 | 1 | US-07-867-106-3 |
| 21 | 14 | 3.2 | 1721 | 3 | US-08-700-651-5 |
| 22 | 14 | 3.2 | 1721 | 3 | US-08-928-361B-6 |
| 23 | 14 | 3.2 | 1721 | 4 | US-09-588-995A-6 |
| 24 | 14 | 3.2 | 1837 | 3 | US-08-928-361B-5 |
| 25 | 14 | 3.2 | 1837 | 4 | US-09-588-995A-5 |
| 26 | 13 | 2.9 | 44 | 4 | US-09-205-258-953 |
| 27 | 13 | 2.9 | 57 | 3 | US-08-900-230-59 |
| 28 | 13 | 2.9 | 57 | 4 | US-09-248-796A-20742 |
| 29 | 13 | 2.9 | 57 | 4 | US-09-248-796A-20742 |
| 30 | 13 | 2.9 | 57 | 4 | US-09-248-796A-20742 |
| 31 | 13 | 2.9 | 57 | 4 | US-09-248-796A-20742 |
| 32 | 13 | 2.9 | 57 | 4 | US-09-248-796A-20742 |
| 33 | 13 | 2.9 | 57 | 4 | US-09-248-796A-20742 |
| 34 | 13 | 2.9 | 57 | 4 | US-09-248-796A-20742 |
| 35 | 13 | 2.9 | 57 | 4 | US-09-248-796A-20742 |
| 36 | 13 | 2.9 | 57 | 4 | US-09-248-796A-20742 |
| 37 | 13 | 2.9 | 57 | 4 | US-09-248-796A-20742 |
| 38 | 13 | 2.9 | 57 | 4 | US-09-248-796A-20742 |
| 39 | 13 | 2.9 | 57 | 4 | US-09-248-796A-20742 |
| 40 | 13 | 2.9 | 57 | 4 | US-09-248-796A-20742 |
| 41 | 13 | 2.9 | 57 | 4 | US-09-248-796A-20742 |
| 42 | 13 | 2.9 | 57 | 4 | US-09-248-796A-20742 |
| 43 | 13 | 2.9 | 57 | 4 | US-09-248-796A-20742 |
| 44 | 13 | 2.9 | 57 | 4 | US-09-248-796A-20742 |
| 45 | 13 | 2.9 | 57 | 4 | US-09-248-796A-20742 |
| 46 | 13 | 2.9 | 57 | 4 | US-09-248-796A-20742 |
| 47 | 13 | 2.9 | 57 | 4 | US-09-248-796A-20742 |
| 48 | 13 | 2.9 | 57 | 4 | US-09-248-796A-20742 |
| 49 | 13 | 2.9 | 57 | 4 | US-09-248-796A-20742 |
| 50 | 13 | 2.9 | 57 | 4 | US-09-248-796A-20742 |
| 51 | 13 | 2.9 | 57 | 4 | US-09-248-796A-20742 |
| 52 | 13 | 2.9 | 57 | 4 | US-09-248-796A-20742 |
| 53 | 13 | 2.9 | 57 | 4 | US-09-248-796A-20742 |
| 54 | 13 | 2.9 | 57 | 4 | US-09-248-796A-20742 |
| 55 | 13 | 2.9 | 57 | 4 | US-09-248-796A-20742 |
| 56 | 13 | 2.9 | 57 | 4 | US-09-248-796A-20742 |
| 57 | 13 | 2.9 | 57 | 4 | US-09-248-796A-20742 |
| 58 | 13 | 2.9 | 57 | 4 | US-09-248-796A-20742 |
| 59 | 13 | 2.9 | 57 | 4 | US-09-248-796A-20742 |
| 60 | 13 | 2.9 | 57 | 4 | US-09-248-796A-20742 |
| 61 | 13 | 2.9 | 57 | 4 | US-09-248-796A-20742 |
| 62 | 13 | 2.9 | 57 | 4 | US-09-248-796A-20742 |
| 63 | 13 | 2.9 | 57 | 4 | US-09-248-796A-20742 |
| 64 | 13 | 2.9 | 57 | 4 | US-09-248-796A-20742 |
| 65 | 13 | 2.9 | 57 | 4 | US-09-248-796A-20742 |
| 66 | 13 | 2.9 | 57 | 4 | US-09-248-796A-20742 |
| 67 | 13 | 2.9 | 57 | 4 | US-09-248-796A-20742 |
| 68 | 13 | 2.9 | 57 | 4 | US-09-248-796A-20742 |
| 69 | 13 | 2.9 | 57 | 4 | US-09-248-796A-20742 |
| 70 | 13 | 2.9 | 57 | 4 | US-09-248-796A-20742 |
| 71 | 13 | 2.9 | 57 | 4 | US-09-248-796A-20742 |
| 72 | 13 | 2.9 | 57 | 4 | US-09-248-796A-20742 |
| 73 | 13 | 2.9 | 57 | 4 | US-09-248-796A-20742 |
| 74 | 13 | 2.9 | 57 | 4 | US-09-248-796A-20742 |
| 75 | 13 | 2.9 | 57 | 4 | US-09-248-796A-20742 |
| 76 | 13 | 2.9 | 57 | 4 | US-09-248-796A-20742 |
| 77 | 13 | 2.9 | 57 | 4 | US-09-248-796A-20742 |
| 78 | 13 | 2.9 | 57 | 4 | US-09-248-796A-20742 |
| 79 | 13 | 2.9 | 57 | 4 | US-09-248-796A-20742 |
| 80 | 13 | 2.9 | 57 | 4 | US-09-248-796A-20742 |
| 81 | 12 | 2.7 | 25 | 4 | US-09-060-767B-7 |
| 82 | 12 | 2.7 | 41 | 4 | US-09-060-767B-8 |
| 83 | 12 | 2.7 | 105 | 4 | US-09-248-796A-22875 |
| 84 | 12 | 2.7 | 144 | 4 | US-09-248-796A-23990 |
| 85 | 12 | 2.7 | 160 | 4 | US-09-248-796A-17879 |
| 86 | 12 | 2.7 | 181 | 4 | US-09-248-796A-21013 |
| 87 | 12 | 2.7 | 351 | 4 | US-09-248-796A-25420 |
| 88 | 12 | 2.7 | 371 | 4 | US-09-270-767-43550 |
| 89 | 12 | 2.7 | 459 | 4 | US-09-248-796A-18432 |
| 90 | 12 | 2.7 | 541 | 4 | US-09-248-796A-18318 |
| 91 | 12 | 2.7 | 559 | 1 | US-08-368-071-12 |
| 92 | 12 | 2.7 | 559 | 1 | US-08-458-181-12 |
| 93 | 12 | 2.7 | 559 | 4 | US-09-900-708-2 |
| 94 | 12 | 2.7 | 559 | 5 | PCT-US93-02172-12 |
| 95 | 12 | 2.7 | 1002 | 4 | US-09-762-724-4 |
| 96 | 12 | 2.7 | 3913 | 4 | US-09-949-016-10933 |
| 97 | 12 | 2.7 | 4377 | 4 | US-09-949-016-6978 |
| 98 | 11 | 2.5 | 13 | 4 | US-10-029-212-10 |
| 99 | 11 | 2.5 | 57 | 4 | US-09-060-767B-6 |
| 100 | 11 | 2.5 | 82 | 4 | US-09-248-796A-20742 |

| | | | | | |
|-----|----|-----|------|---|-----------------------|
| 101 | 11 | 2.5 | 189 | 4 | US-09-248-796A-22901 |
| 102 | 11 | 2.5 | 210 | 4 | US-09-252-991A-30886 |
| 103 | 11 | 2.5 | 292 | 4 | US-09-248-796A-18458 |
| 104 | 11 | 2.5 | 309 | 4 | US-09-248-796A-20897 |
| 105 | 11 | 2.5 | 362 | 4 | US-09-248-796A-14994 |
| 106 | 11 | 2.5 | 392 | 4 | US-09-248-796A-16779 |
| 107 | 11 | 2.5 | 613 | 4 | US-09-248-796A-16524 |
| 108 | 11 | 2.5 | 734 | 4 | US-09-248-796A-18305 |
| 109 | 10 | 2.3 | 64 | 4 | US-09-248-796A-21124 |
| 110 | 10 | 2.3 | 65 | 4 | US-09-248-796A-23985 |
| 111 | 10 | 2.3 | 84 | 4 | US-09-248-796A-23953 |
| 112 | 10 | 2.3 | 94 | 4 | US-09-270-767-59952 |
| 113 | 10 | 2.3 | 137 | 4 | US-09-248-796A-26561 |
| 114 | 10 | 2.3 | 158 | 4 | US-09-248-796A-21630 |
| 115 | 10 | 2.3 | 159 | 4 | US-09-248-796A-16802 |
| 116 | 10 | 2.3 | 174 | 4 | US-09-270-767-44506 |
| 117 | 10 | 2.3 | 181 | 4 | US-09-248-796A-15978 |
| 118 | 10 | 2.3 | 262 | 4 | US-09-248-796A-181832 |
| 119 | 10 | 2.3 | 263 | 4 | US-09-248-796A-14400 |
| 120 | 10 | 2.3 | 381 | 4 | US-09-248-796A-20867 |
| 121 | 10 | 2.3 | 394 | 4 | US-09-248-796A-22220 |
| 122 | 10 | 2.3 | 439 | 4 | US-09-248-796A-24059 |
| 123 | 10 | 2.3 | 447 | 4 | US-09-248-796A-22277 |
| 124 | 10 | 2.3 | 456 | 4 | US-09-270-767-46336 |
| 125 | 10 | 2.3 | 553 | 1 | US-08-651-572-2 |
| 126 | 10 | 2.3 | 553 | 3 | US-09-066-544-2 |
| 127 | 10 | 2.3 | 553 | 3 | US-08-951-086-2 |
| 128 | 10 | 2.3 | 553 | 3 | US-09-430-669-2 |
| 129 | 10 | 2.3 | 666 | 4 | US-09-248-796A-15507 |
| 130 | 10 | 2.3 | 692 | 4 | US-09-248-796A-18612 |
| 131 | 10 | 2.3 | 694 | 4 | US-10-029-180-22 |
| 132 | 10 | 2.3 | 1009 | 4 | US-09-762-724-10 |
| 133 | 10 | 2.3 | 1017 | 4 | US-09-762-724-12 |
| 134 | 10 | 2.3 | 1023 | 4 | US-09-762-724-14 |
| 135 | 10 | 2.3 | 1027 | 4 | US-09-762-724-8 |
| 136 | 10 | 2.3 | 1029 | 4 | US-09-762-724-6 |
| 137 | 10 | 2.3 | 1137 | 4 | US-09-538-092-968 |
| 138 | 9 | 2.0 | 13 | 4 | US-10-029-212-11 |
| 139 | 9 | 2.0 | 47 | 4 | US-09-471-376-1573 |
| 140 | 9 | 2.0 | 72 | 4 | US-09-621-976-3951 |
| 141 | 9 | 2.0 | 76 | 6 | 5273901-11 |
| 142 | 9 | 2.0 | 76 | 6 | 5482709-10 |
| 143 | 9 | 2.0 | 76 | 6 | 5273901-11 |
| 144 | 9 | 2.0 | 76 | 6 | 5482709-10 |
| 145 | 9 | 2.0 | 85 | 4 | US-09-248-796A-21225 |
| 146 | 9 | 2.0 | 88 | 4 | US-09-270-767-34513 |
| 147 | 9 | 2.0 | 88 | 4 | US-09-270-767-49730 |
| 148 | 9 | 2.0 | 102 | 4 | US-09-513-999C-6366 |
| 149 | 9 | 2.0 | 117 | 4 | US-09-270-767-60061 |
| 150 | 9 | 2.0 | 123 | 4 | US-09-248-796A-27877 |

ALIGNMENTS

```

; SOFTWARE: PALENCIAH VERSION 3.0
; SEQ ID NO 1
; LENGTH: 442
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-930-803-1

Query Match      100.0%; Score 442; DB 4; Length 442;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 442; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy   1 MASVVLPSGSCACAAAAAAPPGLRLRLLLLSAAALIFTGQGNLFTKDVTVIEGEVA 60
     |||||
Db   1 MASVFLSGSCACAAAAAAPPGLRLRLLLLSAAALIFTGQGNLFTKDVTVIEGEVA 60
     |||||

Qy   61 TISCQVNKSDDSVIQLLNPNRQTIFYPRDFPLPKDSRFQLNPFSSSELKVSLTNVISIDEG 120
     |||||
Db   61 TISCQVNKSDDSVIQLLNPNRQTIFYPRDFPLPKDSRFQLNPFSSSELKVSLTNVISIDEG 120
     |||||

```


Db 204 MLKVHKDDGVPVICOVEHPAVTGNLQOTRYLEVOYKPVHIMTYPILOGLITREGDALEL 261

Qy 266 TCEAIGKQPQVMVTWVRVDDEMPQHVLGGPNNLFINNLTNDNGTYRCEASNIVGKAHSD 325

Db 264 TCEAIGKQPQVMVTWVRVDDEMPQHVLGGPNNLFINNLTNDNGTYRCEASNIVGKAHSD 323

Qy 326 YMLVYVDPPTTPPPPTTTTTTTTTTTTTTTTTTTTTTTTTTTILTIITDSRAGEEGSRAVDHAVIIGVVAVV 385

Db 324 YMLVYVDPPTTPPPPTTTTTTTTTTTTTTTTTTTTTTTTTTTILTIITDSRAGEEGSRAVDHAVIIGVVAVV 383

Qy 386 FAMLCLLIILGRVFARHGKTGTETHEAKGADDAADATAIINAEAGGONNSEKKKEYFI 442

Db 384 FAMLCLLIILGRVFARHGKTGTETHEAKGADDAADATAIINAEAGGONNSEKKKEYFI 440

RESULT 5

US-09-778-510-22

; Sequence 22, Application US/09778510

; Patent No. 6512095

; GENERAL INFORMATION:

; APPLICANT: Baum, Peter

; TITLE OF INVENTION: Molecules Designated B7L1

; FILE REFERENCE: 2844-US

; CURRENT APPLICATION NUMBER: US/09/778,510

; CURRENT FILING DATE: 2001-02-07

; PRIOR APPLICATION NUMBER: PCT/US99/17906

; PRIOR FILING DATE: 1999-08-05

; PRIOR APPLICATION NUMBER: 60/095,663

; PRIOR FILING DATE: 1998-08-07

; NUMBER OF SEQ ID NOS: 22

; SOFTWARE: Patent In Ver. 2.0

; SEQ ID NO 22

; LENGTH: 423

; TYPE: PRT

; ORGANISM: Mus musculus

US-09-778-510-22

Query Match 33.9%; Score 150; DB 4; Length 423;

Best Local Similarity 100.0%; Pred. No. 8.3e-135;

Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 34 SAAALIPDGDGQNLFTKDVTVIEGEVATISQVNKSDSVIQLNPNRQTTFYFRDRPLK 93

Db 16 SAAALIPDGDGQNLFTKDVTVIEGEVATISQVNKSDSVIQLNPNRQTTFYFRDRPLK 75

Qy 94 DSRFOLLNFSSSELKVSLLTNVISDEGRYFCOLYTDPQESYTTITLVLPNNLMIDIOK 153

Db 76 DSRFOLLNFSSSELKVSLLTNVISDEGRYFCOLYTDPQESYTTITLVLPNNLMIDIOK 135

Qy 154 DTAVEGEEIEVNCNTAMASKPATTTIRWFKN 183

Db 136 DTAVEGEEIEVNCNTAMASKPATTTIRWFKN 165

RESULT 6

US-09-060-767B-5

; Sequence 5, Application US/09060767B

; Patent No. 6720152

; GENERAL INFORMATION:

; APPLICANT: Weil, Gary

; APPLICANT: Chandrasekar, Ramaswamy

; TITLE OF INVENTION: Diagnosis of Histoplasmosis Using Antigens Specific for

; TITLE OF INVENTION: H. capsulatum

; FILE REFERENCE: BJCH 9986

; CURRENT APPLICATION NUMBER: US/09/060,767B

; CURRENT FILING DATE: 1998-04-15

; PRIOR APPLICATION NUMBER: 60/043,332

; PRIOR FILING DATE: 1997-04-15

; NUMBER OF SEQ ID NOS: 9

; SOFTWARE: Patent in version 3.0

; SEQ ID NO 5

; LENGTH: 41

; TYPE: PRT

Qy 26 LRLLLLFSAAALIPDGDGQNLFTKDVTVIEGEVATISQVNKSDSVIQLNPNRQTIIY 85

Db 24 LRLLLLFSAAALIPDGDGQNLFTKDVTVIEGEVATISQVNKSDSVIQLNPNRQTIIY 83

Qy 86 FRDFPKDSRFOLLNFSSSELKVSLLTNVISDEGRYFCOLYTDPQESYTTITLVLPNR 145

Db 84 FRDFPKDSRFOLLNFSSSELKVSLLTNVISDEGRYFCOLYTDPQESYTTITLVLPNR 143

Qy 146 NLMDIQDTAVEGEEIEVNCNTAMASKPATTTIRWFKNTELKGKSEVEEWSDMYTVTSOL 205

Db 144 NLMDIQDTAVEGEEIEVNCNTAMASKPATTTIRWFKNTELKGKSEVEEWSDMYTVTSOL 203

Qy 206 MLKVHKDDGVPVICOVEHPAVTGNLQOTRYLEVOYKPVHIMTYPILOGLITREGDALEL 265

; PRIOR APPLICATION NUMBER: 60/074,092

; PRIOR FILING DATE: February 9, 1998

; PRIOR APPLICATION NUMBER: 60/075,945

; PRIOR FILING DATE: February 25, 1998

; PRIOR APPLICATION NUMBER: 60/112,850

; PRIOR FILING DATE: December 16, 1998

; PRIOR APPLICATION NUMBER: 60/113,296

; PRIOR FILING DATE: December 22, 1998

; PRIOR APPLICATION NUMBER: 60/146,222

; PRIOR FILING DATE: July 28, 1999

; PRIOR APPLICATION NUMBER: PCT/US98/19330

; PRIOR FILING DATE: September 16, 1998

; PRIOR APPLICATION NUMBER: PCT/US98/25108

; PRIOR FILING DATE: December 1, 1998

; PRIOR APPLICATION NUMBER: 09/216,021

; PRIOR FILING DATE: December 16, 1998

; PRIOR APPLICATION NUMBER: 09/218,517

; PRIOR FILING DATE: December 22, 1998

; PRIOR APPLICATION NUMBER: 09/254,311

; PRIOR FILING DATE: March 3, 1999

; PRIOR APPLICATION NUMBER: PCT/US99/12252

; PRIOR FILING DATE: June 22, 1999

; PRIOR APPLICATION NUMBER: PCT/US99/21090

; PRIOR FILING DATE: September 15, 1999

; PRIOR APPLICATION NUMBER: PCT/US99/28409

; PRIOR FILING DATE: No. 6734288ember 30, 1999

; PRIOR APPLICATION NUMBER: PCT/US99/28313

; PRIOR FILING DATE: No. 6734288ember 30, 1999

; PRIOR APPLICATION NUMBER: PCT/US99/28301

; PRIOR FILING DATE: December 1, 1999

; PRIOR APPLICATION NUMBER: PCT/US99/30095

; PRIOR FILING DATE: December 16, 1999

; PRIOR APPLICATION NUMBER: PCT/US00/03565

; PRIOR FILING DATE: February 11, 2000

; PRIOR APPLICATION NUMBER: PCT/US00/04414

; PRIOR FILING DATE: February 22, 2000

; PRIOR APPLICATION NUMBER: PCT/US00/05841

; PRIOR FILING DATE: March 2, 2000

; PRIOR APPLICATION NUMBER: PCT/US00/08439

; PRIOR FILING DATE: March 30, 2000

; PRIOR APPLICATION NUMBER: PCT/US00/14042

; PRIOR FILING DATE: May 22, 2000

; PRIOR APPLICATION NUMBER: PCT/US00/20710

; PRIOR FILING DATE: July 28, 2000

; PRIOR APPLICATION NUMBER: PCT/US00/32678

; PRIOR FILING DATE: December 1, 2000

; PRIOR APPLICATION NUMBER: PCT/US01/06520

; PRIOR FILING DATE: February 28, 2001

; NUMBER OF SEQ ID NOS: 120

; SEQ ID NO 61

; LENGTH: 440

; TYPE: PRT

; ORGANISM: Homo Sapien

US-09-944-457-61

Query Match 94.3%; Score 417; DB 4; Length 440;

Best Local Similarity 100.0%; Pred. No. 0;

Matches 417; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 26 LRLLLLFSAAALIPDGDGQNLFTKDVTVIEGEVATISQVNKSDSVIQLNPNRQTIIY 85

Db 24 LRLLLLFSAAALIPDGDGQNLFTKDVTVIEGEVATISQVNKSDSVIQLNPNRQTIIY 83

Qy 86 FRDFPKDSRFOLLNFSSSELKVSLLTNVISDEGRYFCOLYTDPQESYTTITLVLPNR 145

Db 84 FRDFPKDSRFOLLNFSSSELKVSLLTNVISDEGRYFCOLYTDPQESYTTITLVLPNR 143

Qy 146 NLMDIQDTAVEGEEIEVNCNTAMASKPATTTIRWFKNTELKGKSEVEEWSDMYTVTSOL 205

Db 144 NLMDIQDTAVEGEEIEVNCNTAMASKPATTTIRWFKNTELKGKSEVEEWSDMYTVTSOL 203

Qy 206 MLKVHKDDGVPVICOVEHPAVTGNLQOTRYLEVOYKPVHIMTYPILOGLITREGDALEL 265

```
; ORGANISM: Leishmania
US-09-060-767B-5

Query Match          3.4%; Score 15; DB 4; Length 41;
Best Local Similarity 100.0%; Pred. No. 8.2e-07;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 339 PTTTTTTTTTTTTT 353
DB 1 PTTTTTTTTTTTTT 15

RESULT 7
US-08-700-651-9
; Sequence 9, Application US/08700651B
; Patent No. 6015882
; GENERAL INFORMATION:
; APPLICANT: PETERSEN, CAROLYN
; APPLICANT: LEECH, JAMES
; APPLICANT: NELSON, RICHARD, C.
; APPLICANT: GUT, JIRI
; TITLE OF INVENTION: VACCINES, ANTIBODIES, PROTEINS, GLYCOPROTEINS, DNAS AND RNAS
; TITLE OF INVENTION: FOR PROPHYLAXIS AND TREATMENT OF Cryptosporidium parvum
; FILE REFERENCE: 480.19-4 (HV)
; CURRENT APPLICATION NUMBER: US/08/700,651B
; CURRENT FILING DATE: 1997-08-14
; EARLIER APPLICATION NUMBER: 08/415,751
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 9
; LENGTH: 130
; TYPE: PRT
; ORGANISM: Cryptosporidium parvum
; FEATURE:
; OTHER INFORMATION: mutant/variant of SEQ ID NO:5
US-08-700-651-9

Query Match          3.2%; Score 14; DB 3; Length 130;
Best Local Similarity 100.0%; Pred. No. 2.2e-05;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 340 PTTTTTTTTTTTTT 353
DB 48 PTTTTTTTTTTTTT 61

RESULT 8
US-08-928-361B-14
; Sequence 14, Application US/08928361B
; Patent No. 6071518
; GENERAL INFORMATION:
; APPLICANT: Petersen, Carolyn
; TITLE OF INVENTION: PEPTIDES, POLYPEPTIDES, GLYCOPROTEINS,
; TITLE OF INVENTION: THEIR FUNCTIONAL MUTANTS, VARIANTS, ANALOGS AND FRAGMENTS
; TITLE OF INVENTION: FOR TREATMENT AND DETECTION/DIAGNOSIS OF CRYPTOSPORIDIUM
; TITLE OF INVENTION: SPECIES INFECTIONS
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: PETERS, VERNY, JONES & BIKSA
; STREET: 385 Sherman Avenue, Suite 6
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94306-1840
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/928,361B
```

```
; FILING DATE: 12-SEP-1997
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/026,062
; FILING DATE: 13-SEP-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: VERNY, Hana
; REGISTRATION NUMBER: 30,518
; REFERENCE/DOCKET NUMBER: 480.76-1 (HV)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 650-324-1677
; TELEFAX: 650-324-1678
; INFORMATION FOR SEQ ID NO: 14:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 130 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-928-361B-14

Query Match          3.2%; Score 14; DB 3; Length 130;
Best Local Similarity 100.0%; Pred. No. 2.2e-05;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 340 PTTTTTTTTTTTTT 353
DB 48 PTTTTTTTTTTTTT 61

RESULT 9
US-09-588-995A-14
; Sequence 14, Application US/09588995A
; Patent No. 6514697
; GENERAL INFORMATION:
; APPLICANT: PETERSEN, CAROLYN
; APPLICANT: BARNES, DEBRA A.
; APPLICANT: NELSON, RICHARD C.
; APPLICANT: GUT, JIRI
; TITLE OF INVENTION: METHODS FOR DETECTION OF CRYPTOSPORIDIUM SPECIES AND
; TITLE OF INVENTION: ISOLATES AND FOR DIAGNOSIS OF CRYPTOSPORIDIUM
; TITLE OF INVENTION: INFECTIONS
; FILE REFERENCE: 480.19-5
; CURRENT APPLICATION NUMBER: US/09/588,995A
; CURRENT FILING DATE: 2000-06-06
; PRIOR APPLICATION NUMBER: 08/827,171
; PRIOR FILING DATE: 1997-03-27
; PRIOR APPLICATION NUMBER: 08/928,361
; PRIOR FILING DATE: 1997-09-12
; PRIOR APPLICATION NUMBER: 08/700,651
; PRIOR FILING DATE: 1996-08-14
; PRIOR APPLICATION NUMBER: 08/415,751
; PRIOR FILING DATE: 1995-04-03
; NUMBER OF SEQ ID NOS: 115
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 14
; LENGTH: 130
; TYPE: PRT
; ORGANISM: Cryptosporidium parvum
US-09-588-995A-14

Query Match          3.2%; Score 14; DB 4; Length 130;
Best Local Similarity 100.0%; Pred. No. 2.2e-05;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 340 PTTTTTTTTTTTTT 353
DB 48 PTTTTTTTTTTTTT 61

RESULT 10
US-08-700-651-12
; Sequence 12, Application US/08700651B
```

```
; Patent No. 6015882
; GENERAL INFORMATION:
; APPLICANT: PETERSEN, CAROLYN
; APPLICANT: LEECH, JAMES
; APPLICANT: NELSON, RICHARD, C.
; APPLICANT: GUT, JIRI
; TITLE OF INVENTION: VACCINES, ANTIBODIES, PROTEINS, GLYCOPROTEINS, DNAS AND RNAS
; TITLE OF INVENTION: FOR PROPHYLAXIS AND TREATMENT OF Cryptosporidium parvum
; TITLE OF INVENTION: INFECTIONS
; FILE REFERENCE: 480.19-4(HV)
; CURRENT APPLICATION NUMBER: US/08/700,651B
; CURRENT FILING DATE: 1997-08-14
; EARLIER APPLICATION NUMBER: 08/415,751
; EARLIER FILING DATE: 1995-04-03
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 12
; LENGTH: 175
; TYPE: PRT
; ORGANISM: Cryptosporidium parvum
; FEATURE:
; OTHER INFORMATION: mutant/variant of SEQ ID NO:5
US-08-700-651-12

Query Match      3.2%; Score 14; DB 3; Length 175;
Best Local Similarity 100.0%; Pred. No. 2.9e-05;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      340 PTTTNTTTTTTTTTT 353
Db      87 PTTTNTTTTTTTTTT 100

RESULT 11
US-08-928-361B-17
; Sequence 17, Application US/08928361B
; Patent No. 6071518
; GENERAL INFORMATION:
; APPLICANT: Petersen, Carolyn
; TITLE OF INVENTION: PEPTIDES, POLYPEPTIDES, GLYCOPROTEINS.
; TITLE OF INVENTION: THEIR FUNCTIONAL MUTANTS, VARIANTS, ANALOGS AND FRAGMENTS
; TITLE OF INVENTION: FOR TREATMENT AND DETECTION/DIAGNOSIS OF CRYPTOSPORIDIUM
; TITLE OF INVENTION: SPECIES INFECTIONS
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: PETERS, VERNY, JONES & BIKSA
; STREET: 385 Sherman Avenue, Suite 6
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94306-1840
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/928,361B
; FILING DATE: 12-SEP-1997
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/026,062
; FILING DATE: 13-SEP-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Verny, Hana
; REGISTRATION NUMBER: 30,518
; REFERENCE/DOCKET NUMBER: 480.76-1(HV)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 650-324-1677
; TELEFAX: 650-324-1678
; INFORMATION FOR SEQ ID NO: 17:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 175 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-928-361B-17

Query Match      3.2%; Score 14; DB 3; Length 175;
Best Local Similarity 100.0%; Pred. No. 2.9e-05;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      340 PTTTNTTTTTTTTTT 353
Db      87 PTTTNTTTTTTTTTT 100

RESULT 12
US-09-588-995A-17
; Sequence 17, Application US/09588995A
; Patent No. 6514697
; GENERAL INFORMATION:
; APPLICANT: PETERSEN, CAROLYN
; APPLICANT: BARNES, DEBRA A.
; APPLICANT: NELSON, RICHARD C.
; APPLICANT: GUT, JIRI
; TITLE OF INVENTION: METHODS FOR DETECTION OF CRYPTOSPORIDIUM SPECIES AND
; TITLE OF INVENTION: ISOLATES AND FOR DIAGNOSIS OF CRYPTOSPORIDIUM
; TITLE OF INVENTION: INFECTIONS
; FILE REFERENCE: 480.19-5
; CURRENT APPLICATION NUMBER: US/09/588,995A
; CURRENT FILING DATE: 2000-06-06
; PRIOR APPLICATION NUMBER: 08/827,171
; PRIOR FILING DATE: 1997-03-27
; PRIOR APPLICATION NUMBER: 08/928,361
; PRIOR FILING DATE: 1997-09-12
; PRIOR APPLICATION NUMBER: 08/700,651
; PRIOR FILING DATE: 1996-08-14
; PRIOR APPLICATION NUMBER: 08/415,751
; PRIOR FILING DATE: 1995-04-03
; NUMBER OF SEQ ID NOS: 115
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 17
; LENGTH: 175
; TYPE: PRT
; ORGANISM: Cryptosporidium parvum
US-09-588-995A-17

Query Match      3.2%; Score 14; DB 4; Length 175;
Best Local Similarity 100.0%; Pred. No. 2.9e-05;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      340 PTTTNTTTTTTTTTT 353
Db      87 PTTTNTTTTTTTTTT 100

RESULT 13
US-09-248-796A-21069
; Sequence 21069, Application US/09248796A
; Patent No. 6747137
; GENERAL INFORMATION:
; APPLICANT: Keith Weinstock et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICAN
; TITLE OF INVENTION: FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.132
; CURRENT APPLICATION NUMBER: US/09/248,796A
; CURRENT FILING DATE: 1999-02-12
; PRIOR APPLICATION NUMBER: US 60/074,725
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: US 60/096,409
; PRIOR FILING DATE: 1998-08-13
; NUMBER OF SEQ ID NOS: 28208
; SEQ ID NO 21069
; LENGTH: 197
```

```
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-928-361B-17

Query Match      3.2%; Score 14; DB 3; Length 175;
Best Local Similarity 100.0%; Pred. No. 2.9e-05;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      340 PTTTNTTTTTTTTTT 353
Db      87 PTTTNTTTTTTTTTT 100

RESULT 12
US-09-588-995A-17
; Sequence 17, Application US/09588995A
; Patent No. 6514697
; GENERAL INFORMATION:
; APPLICANT: PETERSEN, CAROLYN
; APPLICANT: BARNES, DEBRA A.
; APPLICANT: NELSON, RICHARD C.
; APPLICANT: GUT, JIRI
; TITLE OF INVENTION: METHODS FOR DETECTION OF CRYPTOSPORIDIUM SPECIES AND
; TITLE OF INVENTION: ISOLATES AND FOR DIAGNOSIS OF CRYPTOSPORIDIUM
; TITLE OF INVENTION: INFECTIONS
; FILE REFERENCE: 480.19-5
; CURRENT APPLICATION NUMBER: US/09/588,995A
; CURRENT FILING DATE: 2000-06-06
; PRIOR APPLICATION NUMBER: 08/827,171
; PRIOR FILING DATE: 1997-03-27
; PRIOR APPLICATION NUMBER: 08/928,361
; PRIOR FILING DATE: 1997-09-12
; PRIOR APPLICATION NUMBER: 08/700,651
; PRIOR FILING DATE: 1996-08-14
; PRIOR APPLICATION NUMBER: 08/415,751
; PRIOR FILING DATE: 1995-04-03
; NUMBER OF SEQ ID NOS: 115
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 17
; LENGTH: 175
; TYPE: PRT
; ORGANISM: Cryptosporidium parvum
US-09-588-995A-17

Query Match      3.2%; Score 14; DB 4; Length 175;
Best Local Similarity 100.0%; Pred. No. 2.9e-05;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      340 PTTTNTTTTTTTTTT 353
Db      87 PTTTNTTTTTTTTTT 100

RESULT 13
US-09-248-796A-21069
; Sequence 21069, Application US/09248796A
; Patent No. 6747137
; GENERAL INFORMATION:
; APPLICANT: Keith Weinstock et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICAN
; TITLE OF INVENTION: FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.132
; CURRENT APPLICATION NUMBER: US/09/248,796A
; CURRENT FILING DATE: 1999-02-12
; PRIOR APPLICATION NUMBER: US 60/074,725
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: US 60/096,409
; PRIOR FILING DATE: 1998-08-13
; NUMBER OF SEQ ID NOS: 28208
; SEQ ID NO 21069
; LENGTH: 197
```



```

; TYPE: PRT
; ORGANISM: Candida albicans
US-09-248-796A-21069

Query Match          3.2%; Score 14; DB 4; Length 197;
Best Local Similarity 100.0%; Pred. No. 3.2e-05;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 341 TTTTNTTTTTTTTTI 354
Db 113 TTTTNTTTTTTTTTI 126

RESULT 14
US-08-928-361B-8
; Sequence 8, Application US/08928361B
; Patent No. 6071518
; GENERAL INFORMATION:
; APPLICANT: Petersen, Carolyn
; TITLE OF INVENTION: PEPTIDES, POLYPEPTIDES, GLYCOPROTEINS,
; TITLE OF INVENTION: THEIR FUNCTIONAL MUTANTS, VARIANTS, ANALOGS AND FRAGMENTS
; TITLE OF INVENTION: FOR TREATMENT AND DETECTION/DIAGNOSIS OF CRYPTOSPORIDIUM
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: PETERS, VERNY, JONES & BIKSA
; STREET: 385 Sherman Avenue, Suite 6
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94306-1840
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA: US/08/928,361B
; APPLICATION NUMBER: 30,518
; FILING DATE: 12-SEP-1997
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/026,062
; FILING DATE: 13-SEP-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: VERNY, Hana
; REGISTRATION NUMBER: 30,518
; REFERENCE/DOCKET NUMBER: 480.76-1(HV)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 650-324-1677
; TELEFAX: 650-324-1678
; INFORMATION FOR SEQ ID NO: 8:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 216 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-928-361B-8

Query Match          3.2%; Score 14; DB 3; Length 216;
Best Local Similarity 100.0%; Pred. No. 3.5e-05;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 340 PTTTNTTTTTTTTTT 353
Db 70 PTTTNTTTTTTTTTT 83

RESULT 15
US-08-928-361B-27
; Sequence 27, Application US/08928361B
; Patent No. 6071518
; GENERAL INFORMATION:

```

```

; APPLICANT: Petersen, Carolyn
; TITLE OF INVENTION: PEPTIDES, POLYPEPTIDES, GLYCOPROTEINS,
; TITLE OF INVENTION: THEIR FUNCTIONAL MUTANTS, VARIANTS, ANALOGS AND FRAGMENTS
; TITLE OF INVENTION: FOR TREATMENT AND DETECTION/DIAGNOSIS OF CRYPTOSPORIDIUM
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: PETERS, VERNY, JONES & BIKSA
; STREET: 385 Sherman Avenue, Suite 6
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94306-1840
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA: US/08/928,361B
; APPLICATION NUMBER: 30,518
; FILING DATE: 12-SEP-1997
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/026,062
; FILING DATE: 13-SEP-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: VERNY, Hana
; REGISTRATION NUMBER: 30,518
; REFERENCE/DOCKET NUMBER: 480.76-1(HV)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 650-324-1677
; TELEFAX: 650-324-1678
; INFORMATION FOR SEQ ID NO: 27:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 216 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-928-361B-27

Query Match          3.2%; Score 14; DB 3; Length 216;
Best Local Similarity 100.0%; Pred. No. 3.5e-05;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 340 PTTTNTTTTTTTTTT 353
Db 116 PTTTNTTTTTTTTTT 129

RESULT 16
US-09-588-995A-8
; Sequence 8, Application US/09588995A
; Patent No. 6514697
; GENERAL INFORMATION:
; APPLICANT: PETERSEN, CAROLYN
; APPLICANT: BARNES, DEBRA A.
; APPLICANT: NELSON, RICHARD C.
; APPLICANT: GUT, JIRI
; TITLE OF INVENTION: METHODS FOR DETECTION OF CRYPTOSPORIDIUM SPECIES AND
; TITLE OF INVENTION: ISOLATES AND FOR DIAGNOSIS OF CRYPTOSPORIDIUM
; TITLE OF INVENTION: INFECTIONS
; FILE REFERENCE: 480.19-5
; CURRENT APPLICATION NUMBER: US/09/588,995A
; CURRENT FILING DATE: 2000-06-06
; PRIOR APPLICATION NUMBER: 08/827,171
; PRIOR FILING DATE: 1997-03-27
; PRIOR APPLICATION NUMBER: 08/928,361
; PRIOR FILING DATE: 1997-09-12
; PRIOR APPLICATION NUMBER: 08/700,651
; PRIOR FILING DATE: 1996-08-14
; PRIOR APPLICATION NUMBER: 08/415,751
; PRIOR FILING DATE: 1995-04-03

```

```
; NUMBER OF SEQ ID NOS: 115
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 8
; LENGTH: 216
; TYPE: PRT
; ORGANISM: Cryptosporidium parvum
US-09-588-995A-8

Query Match          3.2%; Score 14; DB 4; Length 216;
Best Local Similarity 100.0%; Pred. No. 3.5e-05;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 340 PTTTTTTTTTTT 353
Db 70 PTTTTTTTTTTT 83

RESULT 17
US-08-700-651-15
; Sequence 15, Application US/08700651B
; Patent No. 6015882
; GENERAL INFORMATION:
; APPLICANT: PETERSEN, CAROLYN
; APPLICANT: LEECH, JAMES
; APPLICANT: NELSON, RICHARD, C.
; APPLICANT: GUT, JIRI
; TITLE OF INVENTION: VACCINES, ANTIBODIES, PROTEINS, GLYCOPROTEINS, DNAS AND RNAS
; TITLE OF INVENTION: FOR PROPHYLAXIS AND TREATMENT OF Cryptosporidium parvum
; TITLE OF INVENTION: INFECTIONS
; FILE REFERENCE: 480.19-4 (HV)
; CURRENT APPLICATION NUMBER: US/08/700,651B
; CURRENT FILING DATE: 1997-08-14
; EARLIER APPLICATION NUMBER: 08/415,751
; EARLIER FILING DATE: 1995-04-03
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 15
; LENGTH: 249
; TYPE: PRT
; ORGANISM: Cryptosporidium parvum
; FEATURE:
; OTHER INFORMATION: mutant/variant of SEQ ID NO:5
US-08-700-651-15

Query Match          3.2%; Score 14; DB 3; Length 249;
Best Local Similarity 100.0%; Pred. No. 4e-05;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 340 PTTTTTTTTTTT 353
Db 165 PTTTTTTTTTTT 178

RESULT 18
US-08-928-361B-20
; Sequence 20, Application US/08928361B
; Patent No. 6071518
; GENERAL INFORMATION:
; APPLICANT: Petersen, Carolyn
; TITLE OF INVENTION: PEPTIDES, POLYPEPTIDES, GLYCOPROTEINS,
; TITLE OF INVENTION: THEIR FUNCTIONAL MUTANTS, VARIANTS, ANALOGS AND FRAGMENTS
; TITLE OF INVENTION: FOR TREATMENT AND DETECTION/DIAGNOSIS OF CRYPTOSPORIDIUM
; TITLE OF INVENTION: SPECIES INFECTIONS
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: PETERS, VERNY, JONES & BIKSA
; STREET: 385 Sherman Avenue, Suite 6
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94306-1840
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
```

```
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/928,361B
; FILING DATE: 12-SEP-1997
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/026,062
; FILING DATE: 13-SEP-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Verny, Hana
; REGISTRATION NUMBER: 30,518
; REFERENCE/DOCKET NUMBER: 480.76-1 (HV)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 650-324-1677
; TELEFAX: 650-324-1678
; INFORMATION FOR SEQ ID NO: 20:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 249 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-928-361B-20

Query Match          3.2%; Score 14; DB 3; Length 249;
Best Local Similarity 100.0%; Pred. No. 4e-05;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 340 PTTTTTTTTTTT 353
Db 165 PTTTTTTTTTTT 178

RESULT 19
US-09-588-995A-20
; Sequence 20, Application US/09588995A
; Patent No. 6514697
; GENERAL INFORMATION:
; APPLICANT: PETERSEN, CAROLYN
; APPLICANT: BARNES, DEBRA A.
; APPLICANT: NELSON, RICHARD C.
; APPLICANT: GUT, JIRI
; TITLE OF INVENTION: METHODS FOR DETECTION OF CRYPTOSPORIDIUM SPECIES AND
; TITLE OF INVENTION: ISOLATES AND FOR DIAGNOSIS OF CRYPTOSPORIDIUM
; TITLE OF INVENTION: INFECTIONS
; FILE REFERENCE: 480.19-5
; CURRENT APPLICATION NUMBER: US/09/588,995A
; CURRENT FILING DATE: 2000-06-06
; PRIOR APPLICATION NUMBER: 08/827,171
; PRIOR FILING DATE: 1997-03-27
; PRIOR APPLICATION NUMBER: 08/928,361
; PRIOR FILING DATE: 1997-09-12
; PRIOR APPLICATION NUMBER: 08/700,651
; PRIOR FILING DATE: 1996-08-14
; PRIOR APPLICATION NUMBER: 08/415,751
; PRIOR FILING DATE: 1995-04-03
; NUMBER OF SEQ ID NOS: 115
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 20
; LENGTH: 249
; TYPE: PRT
; ORGANISM: Cryptosporidium parvum
US-09-588-995A-20

Query Match          3.2%; Score 14; DB 4; Length 249;
Best Local Similarity 100.0%; Pred. No. 4e-05;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 340 PTTTTTTTTTTT 353
Db 165 PTTTTTTTTTTT 178
```

RESULT 20

US-07-867-106-3
; Sequence 3, Application US/07867106
; Patent No. 5389526
; GENERAL INFORMATION:
; APPLICANT: Slade, Martin B
; APPLICANT: Chang, Andy C M
; APPLICANT: Williams, Keith L
; TITLE OF INVENTION: Improved Plasmid Vectors for Cellular
; TITLE OF INVENTION: Slime Moulds of the Genus Dictyostelium
; NUMBER OF SEQUENCES: 19
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Woodcock Washburn Kurtz Mackiewicz & No. 5389526ris
; STREET: One Liberty Place 46th Floor
; CITY: Philadelphia
; STATE: PA
; COUNTRY: USA
; ZIP: 19103

; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/867.106
; FILING DATE: 19920625
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: AU PJ 7187
; APPLICATION NUMBER: PCT/AU90/00530
; FILING DATE: 02-NOV-1989
; ATTORNEY/AGENT INFORMATION:
; NAME: Peeney, Joanne Longo
; REGISTRATION NUMBER: 35,134
; REFERENCE/DOCKET NUMBER: RICE-0002
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 215-568-3100
; TELEFAX: 215-568-3439
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 887 amino acids
; TYPE: AMINO ACID
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-07-867-106-3

Query Match 3.2%; Score 14; DB 1; Length 887;
Best Local Similarity 100.0%; Pred. No. 0.00013;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 340 PTTTTTTTTTTTTT 353
|||||
Db 250 PTTTTTTTTTTTTT 263

RESULT 21

US-08-700-651-5
; Sequence 5, Application US/08700651B
; Patent No. 6015882
; GENERAL INFORMATION:
; APPLICANT: PETERSEN, CAROLYN
; APPLICANT: LEECH, JAMES
; APPLICANT: NELSON, RICHARD, C.
; APPLICANT: GUT, JIRI
; TITLE OF INVENTION: VACCINES, ANTIBODIES, PROTEINS, GLYCOPROTEINS, DNAS AND RNAS
; TITLE OF INVENTION: FOR PROPHYLAXIS AND TREATMENT OF Cryptosporidium parvum
; TITLE OF INVENTION: INFECTIONS
; FILE REFERENCE: 480.19-4(HV)
; CURRENT APPLICATION NUMBER: US/08/700,651B
; CURRENT FILING DATE: 1997-08-14
; EARLIER APPLICATION NUMBER: 08/415,751
; EARLIER FILING DATE: 1995-04-03

; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 5
; LENGTH: 1721
; TYPE: PRT
; ORGANISM: Cryptosporidium parvum
US-08-700-651-5

Query Match 3.2%; Score 14; DB 3; Length 1721;
Best Local Similarity 100.0%; Pred. No. 0.00024;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 340 PTTTTTTTTTTTTT 353
|||||
Db 307 PTTTTTTTTTTTTT 320

RESULT 22

US-08-928-361B-6
; Sequence 6, Application US/08928361B
; Patent No. 6071518
; GENERAL INFORMATION:
; APPLICANT: Petersen, Carolyn
; TITLE OF INVENTION: PEPTIDES, POLYPEPTIDES, GLYCOPROTEINS.
; TITLE OF INVENTION: THEIR FUNCTIONAL MUTANTS, VARIANTS, ANALOGS AND FRAGMENTS
; TITLE OF INVENTION: FOR TREATMENT AND DETECTION/DIAGNOSIS OF CRYPTOSPORIDIUM
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: PETERS, VERNY, JONES & BIKSA
; STREET: 385 Sherman Avenue, Suite 6
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94306-1840
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/928,361B
; FILING DATE: 12-SEP-1997
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/026,062
; FILING DATE: 13-SEP-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Verny, Hana
; REGISTRATION NUMBER: 30,518
; REFERENCE/DOCKET NUMBER: 480.76-1(HV)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 650-324-1677
; TELEFAX: 650-324-1678
; INFORMATION FOR SEQ ID NO: 6:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1721 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-928-361B-6

Query Match 3.2%; Score 14; DB 3; Length 1721;
Best Local Similarity 100.0%; Pred. No. 0.00024;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 340 PTTTTTTTTTTTTT 353
|||||
Db 307 PTTTTTTTTTTTTT 320

RESULT 23

```
US-09-588-995A-6
; Sequence 6, Application US/09588995A
; Patent No. 6514697
; GENERAL INFORMATION:
; APPLICANT: PETERSEN, CAROLYN
; APPLICANT: BARNES, DEBRA A.
; APPLICANT: NELSON, RICHARD C.
; APPLICANT: GUT, JIRI
; TITLE OF INVENTION: METHODS FOR DETECTION OF CRYPTOSPORIDIUM SPECIES AND
; TITLE OF INVENTION: ISOLATES AND FOR DIAGNOSIS OF CRYPTOSPORIDIUM
; TITLE OF INVENTION: INFECTIONS
; FILE REFERENCE: 480.19-5
; CURRENT APPLICATION NUMBER: US/09/588,995A
; CURRENT FILING DATE: 2000-06-06
; PRIOR APPLICATION NUMBER: 08/827,171
; PRIOR FILING DATE: 1997-03-27
; PRIOR APPLICATION NUMBER: 08/928,361
; PRIOR FILING DATE: 1997-09-12
; PRIOR APPLICATION NUMBER: 08/700,651
; PRIOR FILING DATE: 1996-08-14
; PRIOR APPLICATION NUMBER: 08/415,751
; PRIOR FILING DATE: 1995-04-03
; NUMBER OF SEQ ID NOS: 115
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 6
; LENGTH: 1721
; TYPE: PRT
; ORGANISM: Cryptosporidium parvum
US-09-588-995A-6

Query Match          3.2%; Score 14; DB 4; Length 1721;
Best Local Similarity 100.0%; Pred. No. 0.00024;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      340 PTTTTTTTTTTT 353
Db      307 PTTTTTTTTTTT 320

RESULT 24
US-09-588-995A-6
; Sequence 5, Application US/08928361B
; Patent No. 6071518
; GENERAL INFORMATION:
; APPLICANT: Petersen, Carolyn
; TITLE OF INVENTION: PEPTIDES, POLYPEPTIDES, GLYCOPROTEINS.
; TITLE OF INVENTION: THEIR FUNCTIONAL MUTANTS, VARIANTS, ANALOGS AND FRAGMENTS
; TITLE OF INVENTION: FOR TREATMENT AND DETECTION/DIAGNOSIS OF CRYPTOSPORIDIUM
; TITLE OF INVENTION: SPECIES INFECTIONS
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: PETERS, VERNY, JONES & BIKSA
; STREET: 385 Sherman Avenue, Suite 6
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94306-1840
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/928,361B
; FILING DATE: 12-SEP-1997
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/026,062
; FILING DATE: 13-SEP-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Verny, Hana
; REGISTRATION NUMBER: 30,518
; REFERENCE/DOCKET NUMBER: 480.76-1 (HV)
```

```
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 650-324-1677
; TELEFAX: 650-324-1678
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1837 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-928-361B-5

Query Match          3.2%; Score 14; DB 3; Length 1837;
Best Local Similarity 100.0%; Pred. No. 0.00026;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      340 PTTTTTTTTTTT 353
Db      378 PTTTTTTTTTTT 391

RESULT 25
US-09-588-995A-5
; Sequence 5, Application US/09588995A
; Patent No. 6514697
; GENERAL INFORMATION:
; APPLICANT: PETERSEN, CAROLYN
; APPLICANT: BARNES, DEBRA A.
; APPLICANT: NELSON, RICHARD C.
; APPLICANT: GUT, JIRI
; TITLE OF INVENTION: METHODS FOR DETECTION OF CRYPTOSPORIDIUM SPECIES AND
; TITLE OF INVENTION: ISOLATES AND FOR DIAGNOSIS OF CRYPTOSPORIDIUM
; TITLE OF INVENTION: INFECTIONS
; FILE REFERENCE: 480.19-5
; CURRENT APPLICATION NUMBER: US/09/588,995A
; CURRENT FILING DATE: 2000-06-06
; PRIOR APPLICATION NUMBER: 08/827,171
; PRIOR FILING DATE: 1997-03-27
; PRIOR APPLICATION NUMBER: 08/928,361
; PRIOR FILING DATE: 1997-09-12
; PRIOR APPLICATION NUMBER: 08/700,651
; PRIOR FILING DATE: 1996-08-14
; PRIOR APPLICATION NUMBER: 08/415,751
; PRIOR FILING DATE: 1995-04-03
; NUMBER OF SEQ ID NOS: 115
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 5
; LENGTH: 1837
; TYPE: PRT
; ORGANISM: Cryptosporidium parvum
US-09-588-995A-5

Query Match          3.2%; Score 14; DB 4; Length 1837;
Best Local Similarity 100.0%; Pred. No. 0.00026;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      340 PTTTTTTTTTTT 353
Db      378 PTTTTTTTTTTT 391

RESULT 26
US-09-205-258-953
; Sequence 953, Application US/09205258
; Patent No. 6525174
; GENERAL INFORMATION:
; APPLICANT: Young et al.
; TITLE OF INVENTION: 207 Human Secreted Proteins
; FILE REFERENCE: P2007P1
; CURRENT APPLICATION NUMBER: US/09/205,258
; CURRENT FILING DATE: 1998-12-04
; EARLIER APPLICATION NUMBER: PCT/US98/11422
; EARLIER FILING DATE: 1998-06-04
```

EARLIER APPLICATION NUMBER: 60/048,885
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/049,375
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/048,881
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/048,880
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/048,896
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/049,020
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/048,876
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/048,895
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/048,884
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/048,894
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/048,971
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/048,964
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/048,882
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/048,899
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/048,893
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/048,900
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/048,901
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/048,892
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/048,915
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/049,019
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/048,970
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/048,972
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/048,916
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/049,373
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/048,875
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/049,374
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/048,917
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/048,949
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/048,974
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/048,883
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/048,897
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/048,898
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/048,962
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/048,963
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/048,877
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/048,878
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/070,923

EARLIER FILING DATE: 1997-12-18
EARLIER APPLICATION NUMBER: 60/092,921
EARLIER FILING DATE: 1998-07-15
EARLIER APPLICATION NUMBER: 60/094,657
EARLIER FILING DATE: 1998-07-30
NUMBER OF SEQ ID NOS: 1227
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 353
LENGTH: 44
TYPE: PRT
ORGANISM: Homo sapiens
US-09-205-258-953

Query Match 2.9%; Score 13; DB 4; Length 44;
Best Local Similarity 100.0%; Pred. No. 7.1e-05;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 419 DADTAIINAEQQ 431
|||||
DB 21 DADTAIINAEQQ 33

RESULT 27

US-08-900-230-59
Sequence 59, Application US/08900230
Patent No. 6323197
GENERAL INFORMATION:
APPLICANT: Bard, Jonathan A.
TITLE OF INVENTION: DNA ENCODING GALANN GALR3 RECEPTORS AND
TITLE OF INVENTION: USES THEREOF
NUMBER OF SEQUENCES: 59
CORRESPONDENCE ADDRESS:
ADDRESSEE: Cooper & Dunham LLP
STREET: 1185 Avenue of The Americas
CITY: New York
STATE: New York
COUNTRY: U.S.A.
ZIP: 11036
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/900,230
FILING DATE: 23-JUL-1997
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: White, John P.
REGISTRATION NUMBER: 28,678
REFERENCE/DOCKET NUMBER: 52241-C/JPW/ADM
TELECOMMUNICATION INFORMATION:
TELEPHONE: 212-278-0400
TELEFAX: 212-391-0525
INFORMATION FOR SEQ ID NO: 59:
SEQUENCE CHARACTERISTICS:
LENGTH: 57 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: NO
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-08-900-230-59

Query Match 2.9%; Score 13; DB 3; Length 57;
Best Local Similarity 100.0%; Pred. No. 9.1e-05;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 341 TTTTITTTTTTT 353
|||||
DB 1 TTTTITTTTTTT 13

```
RESULT 28
US-09-060-767B-9
; Sequence 9, Application US/09060767B
; Patent No. 6720152
; GENERAL INFORMATION:
; APPLICANT: Chandrashekar, Ramaswamy
; TITLE OF INVENTION: Diagnosis of Histoplasmosis Using Antigens Specific for
; FILE REFERENCE: BOCH 9986
; CURRENT APPLICATION NUMBER: US/09/060,767B
; CURRENT FILING DATE: 1998-04-15
; PRIOR APPLICATION NUMBER: 60/043,332
; PRIOR FILING DATE: 1997-04-15
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 9
; LENGTH: 57
; TYPE: PRT
; ORGANISM: Histoplasma Capsulatum
US-09-060-767B-9

Query Match      2.9%; Score 13; DB 4; Length 57;
Best Local Similarity 100.0%; Pred. No. 9.1e-05;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 338 PPPTTTTTTTTTT 350
DB 16 PPPTTTTTTTTTT 28

RESULT 29
US-09-248-796A-23083
; Sequence 23083, Application US/09248796A
; Patent No. 6747137
; GENERAL INFORMATION:
; APPLICANT: Keith Weinstock et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICAN
; FILE REFERENCE: 107196.132
; CURRENT APPLICATION NUMBER: US/09/248,796A
; CURRENT FILING DATE: 1999-02-12
; PRIOR APPLICATION NUMBER: US 60/074,725
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: US 60/096,409
; PRIOR FILING DATE: 1998-08-13
; NUMBER OF SEQ ID NOS: 28208
; SEQ ID NO 23083
; LENGTH: 63
; TYPE: PRT
; ORGANISM: Candida albicans
US-09-248-796A-23083

Query Match      2.9%; Score 13; DB 4; Length 63;
Best Local Similarity 100.0%; Pred. No. 0.0001;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 340 PTTTTTTTTTTTTT 352
DB 36 PTTTTTTTTTTTTT 48

RESULT 30
US-09-248-796A-25289
; Sequence 25289, Application US/09248796A
; Patent No. 6747137
; GENERAL INFORMATION:
; APPLICANT: Keith Weinstock et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICAN
; FILE REFERENCE: 107196.132
; CURRENT APPLICATION NUMBER: US/09/248,796A
```

```
; CURRENT FILING DATE: 1999-02-12
; PRIOR APPLICATION NUMBER: US 60/074,725
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: US 60/096,409
; PRIOR FILING DATE: 1998-08-13
; NUMBER OF SEQ ID NOS: 28208
; SEQ ID NO 25289
; LENGTH: 75
; TYPE: PRT
; ORGANISM: Candida albicans
US-09-248-796A-25289

Query Match      2.9%; Score 13; DB 4; Length 75;
Best Local Similarity 100.0%; Pred. No. 0.00012;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 341 TTTTTTTTTTTTTT 353
DB 7 TTTTTTTTTTTTTT 19

RESULT 31
US-08-700-651-14
; Sequence 14, Application US/08700651B
; Patent No. 6015882
; GENERAL INFORMATION:
; APPLICANT: PETERSEN, CAROLYN
; APPLICANT: LEECH, JAMES
; APPLICANT: NELSON, RICHARD, C.
; APPLICANT: GUT, JIRI
; TITLE OF INVENTION: VACCINES, ANTIBODIES, PROTEINS, GLYCOPROTEINS, DNAS AND RNAS
; TITLE OF INVENTION: FOR PROPHYLAXIS AND TREATMENT OF Cryptosporidium parvum
; FILE REFERENCE: 480.19-4(HV)
; CURRENT APPLICATION NUMBER: US/08/700,651B
; CURRENT FILING DATE: 1997-08-14
; EARLIER APPLICATION NUMBER: 08/415,751
; EARLIER FILING DATE: 1995-04-03
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 14
; LENGTH: 91
; TYPE: PRT
; ORGANISM: Cryptosporidium parvum
; FEATURE:
; OTHER INFORMATION: mutant/variant of SEQ ID NO:5
US-08-700-651-14

Query Match      2.9%; Score 13; DB 3; Length 91;
Best Local Similarity 100.0%; Pred. No. 0.00014;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 341 TTTTTTTTTTTTTT 353
DB 18 TTTTTTTTTTTTTT 30

RESULT 32
US-08-928-361B-19
; Sequence 19, Application US/08928361B
; Patent No. 6071518
; GENERAL INFORMATION:
; APPLICANT: Petersen, Carolyn
; TITLE OF INVENTION: PEPTIDES, POLYPEPTIDES, GLYCOPROTEINS.
; TITLE OF INVENTION: THEIR FUNCTIONAL MUTANTS, VARIANTS, ANALOGS AND FRAGMENTS
; TITLE OF INVENTION: FOR TREATMENT AND DETECTION/DIAGNOSIS OF CRYPTOSPORIDIUM
; TITLE OF INVENTION: SPECIES INFECTIONS
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: PETERS, VERNY, JONES & BIKSA
; STREET: 385 Sherman Avenue, Suite 6
; CITY: Palo Alto
; STATE: CA
```

;; COUNTRY: USA
;; ZIP: 94306-1840
;; COMPUTER READABLE FORM:
;; MEDIUM TYPE: Floppy disk
;; COMPUTER: IBM PC compatible
;; OPERATING SYSTEM: PC-DOS/MS-DOS
;; SOFTWARE: PatentIn Release #1.0, Version #1.30
;; CURRENT APPLICATION DATA: US/08/928,361B
;; APPLICATION NUMBER: US/08/928,361B
;; FILING DATE: 12-SEP-1997
;; CLASSIFICATION:
;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: US 60/026,062
;; FILING DATE: 13-SEP-1996
;; ATTORNEY/AGENT INFORMATION:
;; NAME: Verry, Hana
;; REGISTRATION NUMBER: 30,518
;; REFERENCE/DOCKET NUMBER: 480.76-1(HV)
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: 650-324-1677
;; TELEFAX: 650-324-1678
;; INFORMATION FOR SEQ ID NO: 19:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 91 amino acids
;; TYPE: amino acid
;; STRANDEDNESS:
;; TOPOLOGY: linear
;; MOLECULE TYPE: protein
US-08-928-361B-19

Query Match 2.9%; Score 13; DB 3; Length 91;
Best Local Similarity 100.0%; Pred. No. 0.00014;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 341 TTTT TTTT TTTT TTTT 353
Db 18 TTTT TTTT TTTT 30

RESULT 33
US-09-588-995A-19
; Sequence 19, Application US/09588995A
; Patent No. 6514697
; GENERAL INFORMATION:
; APPLICANT: PETERSEN, CAROLYN
; APPLICANT: BARNES, DEBRA A.
; APPLICANT: NELSON, RICHARD C.
; APPLICANT: GUT, JIRI
; TITLE OF INVENTION: METHODS FOR DETECTION OF CRYPTOSPORIDIUM SPECIES AND
; TITLE OF INVENTION: ISOLATES AND FOR DIAGNOSIS OF CRYPTOSPORIDIUM
; FILE REFERENCE: 480.19-5
; CURRENT APPLICATION NUMBER: US/09/588,995A
; CURRENT FILING DATE: 2000-06-06
; PRIOR APPLICATION NUMBER: 08/827,171
; PRIOR FILING DATE: 1997-03-27
; PRIOR APPLICATION NUMBER: 08/928,361
; PRIOR FILING DATE: 1997-09-12
; PRIOR APPLICATION NUMBER: 08/700,651
; PRIOR FILING DATE: 1996-08-14
; PRIOR APPLICATION NUMBER: 08/415,751
; PRIOR FILING DATE: 1995-04-03
; NUMBER OF SEQ ID NOS: 115
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 19
; LENGTH: 91
; TYPE: PRT
; ORGANISM: Cryptosporidium parvum
US-09-588-995A-19

Query Match 2.9%; Score 13; DB 4; Length 91;
Best Local Similarity 100.0%; Pred. No. 0.00014;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 341 TTTT TTTT TTTT TTTT 353
Db 18 TTTT TTTT TTTT 30

RESULT 34
US-09-270-767-36192
; Sequence 36192, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 36192
; LENGTH: 106
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
US-09-270-767-36192

Query Match 2.9%; Score 13; DB 4; Length 106;
Best Local Similarity 100.0%; Pred. No. 0.00016;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 341 TTTT TTTT TTTT TTTT 353
Db 89 TTTT TTTT TTTT 101

RESULT 35
US-09-270-767-51409
; Sequence 51409, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 51409
; LENGTH: 106
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
US-09-270-767-51409

Query Match 2.9%; Score 13; DB 4; Length 106;
Best Local Similarity 100.0%; Pred. No. 0.00016;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 341 TTTT TTTT TTTT TTTT 353
Db 89 TTTT TTTT TTTT 101

RESULT 36
US-08-700-651-11
; Sequence 11, Application US/08700651B
; Patent No. 6015882
; GENERAL INFORMATION:
; APPLICANT: PETERSEN, CAROLYN
; APPLICANT: LEECH, JAMES
; APPLICANT: NELSON, RICHARD, C.
; APPLICANT: GUT, JIRI
; TITLE OF INVENTION: VACCINES, ANTIBODIES, PROTEINS, GLYCOPROTEINS, DNAS AND RNAS
; TITLE OF INVENTION: FOR PROPHYLAXIS AND TREATMENT OF CRYPTOSPORIDIUM PARVUM
; TITLE OF INVENTION: INFECTIONS
; FILE REFERENCE: 480.19-4 (HV)

; CURRENT APPLICATION NUMBER: US/08/700,651B
; EARLIER FILING DATE: 1997-08-14
; EARLIER APPLICATION NUMBER: 08/415,751
; EARLIER FILING DATE: 1995-04-03
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 11
; LENGTH: 124
; TYPE: PR1
; ORGANISM: Cryptosporidium parvum
; FEATURE:
; OTHER INFORMATION: mutant/variant of SEQ ID NO:5
US-08-700-651-11

Query Match 2.9%; Score 13; DB 3; Length 124;
Best Local Similarity 100.0%; Pred. No. 0.00019;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 341 TTTT TTTT TTTT TTTT 353
| | | | | | | | | |
Db 33 TTTT TTTT TTTT TTTT 45

RESULT 37
US-08-928-361B-16
; Sequence 16, Application US/08928361B
; Patent No. 6071518
; GENERAL INFORMATION:
; APPLICANT: Petersen, Carolyn
; TITLE OF INVENTION: PEPTIDES, POLYPEPTIDES, GLYCOPROTEINS,
; TITLE OF INVENTION: THEIR FUNCTIONAL MUTANTS, VARIANTS, ANALOGS AND FRAGMENTS
; TITLE OF INVENTION: FOR TREATMENT AND DETECTION/DIAGNOSIS OF CRYPTOSPORIDIUM
; TITLE OF INVENTION: SPECIES INFECTIONS
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: PETERS, VERNY, JONES & BIKSA
; STREET: 385 Sherman Avenue, Suite 6
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94306-1840
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA: US/08/928,361B
; APPLICATION NUMBER: US/08/928,361B
; FILING DATE: 12-SEP-1997
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/026,062
; FILING DATE: 13-SEP-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: VERNY, Hana
; REGISTRATION NUMBER: 30,518
; REFERENCE/DOCKET NUMBER: 480.76-1 (HV)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 650-324-1677
; TELEFAX: 650-324-1678
; INFORMATION FOR SEQ ID NO: 16:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 124 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-928-361B-16

Query Match 2.9%; Score 13; DB 3; Length 124;
Best Local Similarity 100.0%; Pred. No. 0.00019;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 341 TTTT TTTT TTTT TTTT 353
| | | | | | | | | |
Db 33 TTTT TTTT TTTT TTTT 45

RESULT 38
US-09-588-995A-16
; Sequence 16, Application US/09588995A
; Patent No. 6514697
; GENERAL INFORMATION:
; APPLICANT: PETERSEN, CAROLYN
; APPLICANT: BARNES, DEBRA A.
; APPLICANT: NELSON, RICHARD C.
; APPLICANT: GUT, JIRI
; TITLE OF INVENTION: METHODS FOR DETECTION OF CRYPTOSPORIDIUM SPECIES AND
; TITLE OF INVENTION: ISOLATES AND FOR DIAGNOSIS OF CRYPTOSPORIDIUM
; TITLE OF INVENTION: INFECTIONS
; FILE REFERENCE: 480.19-5
; CURRENT APPLICATION NUMBER: US/09/588,995A
; CURRENT FILING DATE: 2000-06-06
; PRIOR APPLICATION NUMBER: 08/827,171
; PRIOR FILING DATE: 1997-03-27
; PRIOR APPLICATION NUMBER: 08/928,361
; PRIOR FILING DATE: 1997-09-12
; PRIOR APPLICATION NUMBER: 08/700,651
; PRIOR FILING DATE: 1996-08-14
; PRIOR APPLICATION NUMBER: 08/415,751
; PRIOR FILING DATE: 1995-04-03
; NUMBER OF SEQ ID NOS: 115
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 16
; LENGTH: 124
; TYPE: PR1
; ORGANISM: Cryptosporidium parvum
US-09-588-995A-16

Query Match 2.9%; Score 13; DB 4; Length 124;
Best Local Similarity 100.0%; Pred. No. 0.00019;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 341 TTTT TTTT TTTT TTTT 353
| | | | | | | | | |
Db 33 TTTT TTTT TTTT TTTT 45

RESULT 39
US-08-700-651-7
; Sequence 7, Application US/08700651B
; Patent No. 6015882
; GENERAL INFORMATION:
; APPLICANT: PETERSEN, CAROLYN
; APPLICANT: LEECH, JAMES
; APPLICANT: NELSON, RICHARD, C.
; APPLICANT: GUT, JIRI
; TITLE OF INVENTION: VACCINES, ANTIBODIES, PROTEINS, GLYCOPROTEINS, DNAS AND RNAS
; TITLE OF INVENTION: FOR PROPHYLAXIS AND TREATMENT OF Cryptosporidium parvum
; TITLE OF INVENTION: INFECTIONS
; FILE REFERENCE: 480.19-4(HV)
; CURRENT APPLICATION NUMBER: US/08/700,651B
; CURRENT FILING DATE: 1997-08-14
; EARLIER APPLICATION NUMBER: 08/415,751
; EARLIER FILING DATE: 1995-04-03
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 7
; LENGTH: 128
; TYPE: PR1
; ORGANISM: Cryptosporidium parvum
; FEATURE:
; OTHER INFORMATION: mutant/variant of SEQ ID NO:5
US-08-700-651-7

Query Match 2.9%; Score 13; DB 3; Length 128;

Best Local Similarity 100.0%; Pred. No. 0.00019;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 341 TTTTNTTTTTTTT 353
Db 37 TTTTNTTTTTTTT 49

RESULT 40
US-08-928-361B-12
; Sequence 12, Application US/08928361B
; Patent No. 6071518
; GENERAL INFORMATION:
; APPLICANT: Petersen, Carolyn
; TITLE OF INVENTION: PEPTIDES, POLYPEPTIDES, GLYCOPROTEINS,
; TITLE OF INVENTION: THEIR FUNCTIONAL MUTANTS, VARIANTS, ANALOGS AND FRAGMENTS
; TITLE OF INVENTION: FOR TREATMENT AND DETECTION/DIAGNOSIS OF CRYPTOSPORIDIUM
; TITLE OF INVENTION: SPECIES INFECTIONS
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: PETERS, VERNY, JONES & BIKSA
; STREET: 385 Sherman Avenue, Suite 6
; CITY: Palo-Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94306-1840
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA: US/08/928,361B
; APPLICATION NUMBER: US/08/928,361B
; FILING DATE: 12-SEP-1997
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/026,062
; FILING DATE: 13-SEP-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Verty, Hana
; REGISTRATION NUMBER: 30,518
; REFERENCE/DOCKET NUMBER: 480.76-1 (HV)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 650-324-1677
; TELEFAX: 650-324-1678
; INFORMATION FOR SEQ ID NO: 12:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 128 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-928-361B-12

Query Match 2.9%; Score 13; DB 3; Length 128;
Best Local Similarity 100.0%; Pred. No. 0.00019;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 341 TTTTNTTTTTTTT 353
Db 37 TTTTNTTTTTTTT 49

RESULT 41
US-09-588-995A-12
; Sequence 12, Application US/09588995A
; Patent No. 6514697
; GENERAL INFORMATION:
; APPLICANT: PETERSEN, CAROLYN
; APPLICANT: BARNES, DEBRA A.
; APPLICANT: NELSON, RICHARD C.
; APPLICANT: GUT, JIRI
; TITLE OF INVENTION: METHODS FOR DETECTION OF CRYPTOSPORIDIUM SPECIES AND

; TITLE OF INVENTION: ISOLATES AND FOR DIAGNOSIS OF CRYPTOSPORIDIUM
; TITLE OF INVENTION: INFECTIONS
; FILE REFERENCE: 480.19-5
; CURRENT APPLICATION NUMBER: US/09/588,995A
; CURRENT FILING DATE: 2000-06-06
; PRIOR APPLICATION NUMBER: 08/827,171
; PRIOR FILING DATE: 1997-03-27
; PRIOR APPLICATION NUMBER: 08/928,361
; PRIOR FILING DATE: 1997-09-12
; PRIOR APPLICATION NUMBER: 08/700,651
; PRIOR FILING DATE: 1996-08-14
; PRIOR APPLICATION NUMBER: 08/415,751
; PRIOR FILING DATE: 1995-04-03
; NUMBER OF SEQ ID NOS: 115
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 12
; LENGTH: 128
; TYPE: PRT
; ORGANISM: Cryptosporidium parvum
US-09-588-995A-12

Query Match 2.9%; Score 13; DB 4; Length 128;
Best Local Similarity 100.0%; Pred. No. 0.00019;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 341 TTTTNTTTTTTTT 353
Db 37 TTTTNTTTTTTTT 49

RESULT 42
US-08-700-651-8
; Sequence 8, Application US/08700651B
; Patent No. 6015882
; GENERAL INFORMATION:
; APPLICANT: PETERSEN, CAROLYN
; APPLICANT: LEECH, JAMES
; APPLICANT: NELSON, RICHARD, C.
; APPLICANT: GUT, JIRI
; TITLE OF INVENTION: VACCINES, ANTIBODIES, PROTEINS, GLYCOPROTEINS, DNAS AND RNAS
; TITLE OF INVENTION: FOR PROPHYLAXIS AND TREATMENT OF Cryptosporidium parvum
; TITLE OF INVENTION: INFECTIONS
; FILE REFERENCE: 480.19-4(HV)
; CURRENT APPLICATION NUMBER: US/08/700,651B
; CURRENT FILING DATE: 1997-08-14
; EARLIER APPLICATION NUMBER: 08/415,751
; EARLIER FILING DATE: 1995-04-03
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 8
; LENGTH: 130
; TYPE: PRT
; ORGANISM: Cryptosporidium parvum
; FEATURE:
; OTHER INFORMATION: mutant/variant of SEQ ID NO:5
US-08-700-651-8

Query Match 2.9%; Score 13; DB 3; Length 130;
Best Local Similarity 100.0%; Pred. No. 0.0002;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 341 TTTTNTTTTTTTT 353
Db 39 TTTTNTTTTTTTT 51

RESULT 43
US-08-928-361B-13
; Sequence 13, Application US/08928361B
; Patent No. 6071518
; GENERAL INFORMATION:
; APPLICANT: Petersen, Carolyn
; TITLE OF INVENTION: PEPTIDES, POLYPEPTIDES, GLYCOPROTEINS,

```

RESULT 44
US-09-588-995A-13
; Sequence 13, Application US/09588995A
; Patent No. 6514697
; GENERAL INFORMATION:
; APPLICANT: PETERSEN, CAROLYN
; APPLICANT: BARNES, DEBRA A.
; APPLICANT: NELSON, RICHARD C.
; APPLICANT: GUT, JIRI
; TITLE OF INVENTION: METHODS FOR DETECTION OF CRYPTOSPORIDIUM SPECIES AND
; TITLE OF INVENTION: ISOLATES AND FOR DIAGNOSIS OF CRYPTOSPORIDIUM
; TITLE OF INVENTION: INFECTIONS
; FILE REFERENCE: 480.19-5
; CURRENT APPLICATION NUMBER: US/09/588,995A
; CURRENT FILING DATE: 2000-06-06
; PRIOR APPLICATION NUMBER: 08/827,171
; PRIOR FILING DATE: 1997-03-27
; PRIOR APPLICATION NUMBER: 08/928,361
; PRIOR FILING DATE: 1997-09-12
; PRIOR APPLICATION NUMBER: 08/700,651
; PRIOR FILING DATE: 1996-08-14
; PRIOR APPLICATION NUMBER: 08/415,751
; PRIOR FILING DATE: 1995-04-03
; NUMBER OF SEQ ID NOS: 115
; SOFTWARE: PatentIn Ver. 2.1

```

```

RESULT 46
US-08-928-361B-15
; Sequence 15, Application US/08928361B
; Patent No. 6071518
; GENERAL INFORMATION:
; APPLICANT: Petersen, Carolyn
; TITLE OF INVENTION: PEPTIDES, POLYPEPTIDES, GLYCOPROTEINS,
; TITLE OF INVENTION: THEIR FUNCTIONAL MUTANTS, VARIANTS, ANALOGS AND FRAGMENTS
; TITLE OF INVENTION: FOR TREATMENT AND DETECTION/DIAGNOSIS OF CRYPTOSPORIDIUM
; TITLE OF INVENTION: SPECIES INFECTIONS
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: PETERS, VERNY, JONES & BIKSA
; STREET: 385 Sherman Avenue, Suite 6
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94306-1840
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS

```

;; SOFTWARE: PatentIn Release #1.0, Version #1.30
;; CURRENT APPLICATION DATA:
;; APPLICATION NUMBER: US/08/928,361B
;; FILING DATE: 12-SEP-1997
;; CLASSIFICATION:
;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: US 60/026,062
;; FILING DATE: 13-SEP-1996
;; ATTORNEY/AGENT INFORMATION:
;; NAME: VERNY, Hana
;; REGISTRATION NUMBER: 30,518
;; REFERENCE/DOCKET NUMBER: 480.76-1 (HV)
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: 650-324-1677
;; TELEFAX: 650-324-1678
;; INFORMATION FOR SEQ ID NO: 15:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 138 amino acids
;; TYPE: amino acid
;; STRANDEDNESS:
;; TOPOLOGY: linear
;; MOLECULE TYPE: protein
;; US-08-928-361B-15

Query Match 2.9%; Score 13; DB 3; Length 138;
Best Local Similarity 100.0%; Pred. No. 0.00021;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 341 TTTTNTTTTTTTT 353
|||||
Db 47 TTTTNTTTTTTT 59

RESULT 47

;; US-09-588-995A-15
;; Sequence 15, Application US/09588995A
;; Patent No. 6514697
;; GENERAL INFORMATION:
;; APPLICANT: PETERSEN, CAROLYN
;; APPLICANT: BARNES, DEBRA A.
;; APPLICANT: NELSON, RICHARD C.
;; APPLICANT: GUT, JIRI
;; TITLE OF INVENTION: METHODS FOR DETECTION OF CRYPTOSPORIDIUM SPECIES AND
;; TITLE OF INVENTION: ISOLATES AND FOR DIAGNOSIS OF CRYPTOSPORIDIUM
;; FILE REFERENCE: 480.19-5
;; CURRENT APPLICATION NUMBER: US/09/588,995A
;; CURRENT FILING DATE: 2000-06-06
;; PRIOR APPLICATION NUMBER: 08/827,171
;; PRIOR FILING DATE: 1997-03-27
;; PRIOR APPLICATION NUMBER: 08/928,361
;; PRIOR FILING DATE: 1997-09-12
;; PRIOR APPLICATION NUMBER: 08/700,651
;; PRIOR FILING DATE: 1996-08-14
;; PRIOR APPLICATION NUMBER: 08/415,751
;; PRIOR FILING DATE: 1995-04-03
;; NUMBER OF SEQ ID NOS: 115
;; SOFTWARE: PatentIn Ver. 2.1
;; SEQ ID NO 15
;; LENGTH: 138
;; TYPE: PRT
;; ORGANISM: Cryptosporidium parvum
;; US-09-588-995A-15

Query Match 2.9%; Score 13; DB 4; Length 138;
Best Local Similarity 100.0%; Pred. No. 0.00021;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 341 TTTTNTTTTTTTT 353
|||||
Db 47 TTTTNTTTTTTT 59

RESULT 48
;; US-08-928-361B-18
;; Sequence 18, Application US/08928361B
;; Patent No. 6071518
;; GENERAL INFORMATION:
;; APPLICANT: Petersen, Carolyn
;; TITLE OF INVENTION: PEPTIDES, POLYPEPTIDES, GLYCOPROTEINS,
;; TITLE OF INVENTION: THEIR FUNCTIONAL MUTANTS, VARIANTS, ANALOGS AND FRAGMENTS
;; TITLE OF INVENTION: FOR TREATMENT AND DETECTION/DIAGNOSIS OF CRYPTOSPORIDIUM
;; TITLE OF INVENTION: SPECIES INFECTIONS
;; NUMBER OF SEQUENCES: 30
;; CORRESPONDENCE ADDRESS:
;; ADDRESSEE: PETERS, VERNY, JONES & BIKSA
;; STREET: 385 Sherman Avenue, Suite 6
;; CITY: Palo Alto
;; STATE: CA
;; COUNTRY: USA
;; ZIP: 94306-1840
;; COMPUTER READABLE FORM:
;; MEDIUM TYPE: Floppy disk
;; COMPUTER: IBM PC compatible
;; OPERATING SYSTEM: PC-DOS/MS-DOS
;; SOFTWARE: PatentIn Release #1.0, Version #1.30
;; CURRENT APPLICATION DATA:
;; APPLICATION NUMBER: US/08/928,361B
;; FILING DATE: 12-SEP-1997
;; CLASSIFICATION:
;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: US 60/026,062
;; FILING DATE: 13-SEP-1996
;; ATTORNEY/AGENT INFORMATION:
;; NAME: VERNY, Hana
;; REGISTRATION NUMBER: 30,518
;; REFERENCE/DOCKET NUMBER: 480.76-1 (HV)
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: 650-324-1677
;; TELEFAX: 650-324-1678
;; INFORMATION FOR SEQ ID NO: 18:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 150 amino acids
;; TYPE: amino acid
;; STRANDEDNESS:
;; TOPOLOGY: linear
;; MOLECULE TYPE: protein
;; US-08-928-361B-18

Query Match 2.9%; Score 13; DB 3; Length 150;
Best Local Similarity 100.0%; Pred. No. 0.00022;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 341 TTTTNTTTTTTTT 353
|||||
Db 62 TTTTNTTTTTTT 74

RESULT 49

;; US-09-588-995A-18
;; Sequence 18, Application US/09588995A
;; Patent No. 6514697
;; GENERAL INFORMATION:
;; APPLICANT: PETERSEN, CAROLYN
;; APPLICANT: BARNES, DEBRA A.
;; APPLICANT: NELSON, RICHARD C.
;; APPLICANT: GUT, JIRI
;; TITLE OF INVENTION: METHODS FOR DETECTION OF CRYPTOSPORIDIUM SPECIES AND
;; TITLE OF INVENTION: ISOLATES AND FOR DIAGNOSIS OF CRYPTOSPORIDIUM
;; TITLE OF INVENTION: INFECTIONS
;; FILE REFERENCE: 480.19-5
;; CURRENT APPLICATION NUMBER: US/09/588,995A
;; CURRENT FILING DATE: 2000-06-06
;; PRIOR APPLICATION NUMBER: 08/827,171
;; PRIOR FILING DATE: 1997-03-27
;; PRIOR APPLICATION NUMBER: 08/928,361

```
; PRIOR FILING DATE: 1997-09-12
; PRIOR APPLICATION NUMBER: 08/700,651
; PRIOR FILING DATE: 1996-08-14
; PRIOR APPLICATION NUMBER: 08/415,751
; PRIOR FILING DATE: 1995-04-03
; NUMBER OF SEQ ID NOS: 115
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 18
; LENGTH: 150
; TYPE: PRT
; ORGANISM: Cryptosporidium parvum
US-09-588-995A-18

Query Match      2.9%; Score 13; DB 4; Length 150;
Best Local Similarity 100.0%; Pred. No. 0.00022;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 341 TTTTNTTTTTTTTT 353
Db 62 TTTTNTTTTTTTTT 74

RESULT 50
US-09-248-796A-21631
; Sequence 21631, Application US/09248796A
; Patent No. 6747137
; GENERAL INFORMATION:
; APPLICANT: Keith Weinstock et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICAN
; FILE REFERENCE: 107196.132
; CURRENT APPLICATION NUMBER: US/09/248,796A
; CURRENT FILING DATE: 1999-02-12
; PRIOR APPLICATION NUMBER: US 60/074,725
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: US 60/096,409
; PRIOR FILING DATE: 1998-08-13
; NUMBER OF SEQ ID NOS: 28208
; SEQ ID NO 21631
; LENGTH: 159
; TYPE: PRT
; ORGANISM: Candida albicans
US-09-248-796A-21631

Query Match      2.9%; Score 13; DB 4; Length 159;
Best Local Similarity 100.0%; Pred. No. 0.00024;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 342 TTTTNTTTTTTTTT 354
Db 52 TTTTNTTTTTTTTT 64

RESULT 51
US-08-700-651-13
; Sequence 13, Application US/08700651B
; Patent No. 6015882
; GENERAL INFORMATION:
; APPLICANT: PETERSEN, CAROLYN
; APPLICANT: LEECH, JAMES
; APPLICANT: NELSON, RICHARD, C.
; APPLICANT: GUT, JIRI
; TITLE OF INVENTION: VACCINES, ANTIBODIES, PROTEINS, GLYCOPROTEINS, DNAS AND RNAS
; TITLE OF INVENTION: FOR PROPHYLAXIS AND TREATMENT OF Cryptosporidium parvum
; FILE REFERENCE: 480.19-4(HV)
; CURRENT APPLICATION NUMBER: US/08/700,651B
; CURRENT FILING DATE: 1997-08-14
; EARLIER APPLICATION NUMBER: 08/415,751
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 13
```

```
; LENGTH: 162
; TYPE: PRT
; ORGANISM: Cryptosporidium parvum
; FEATURE:
; OTHER INFORMATION: mutant/variant of SEQ ID NO:5
US-08-700-651-13

Query Match      2.9%; Score 13; DB 3; Length 162;
Best Local Similarity 100.0%; Pred. No. 0.00024;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 341 TTTTNTTTTTTTTT 353
Db 76 TTTTNTTTTTTTTT 88

RESULT 52
US-09-248-796A-16058
; Sequence 16058, Application US/09248796A
; Patent No. 6747137
; GENERAL INFORMATION:
; APPLICANT: Keith Weinstock et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICAN
; FILE REFERENCE: 107196.132
; CURRENT APPLICATION NUMBER: US/09/248,796A
; CURRENT FILING DATE: 1999-02-12
; PRIOR APPLICATION NUMBER: US 60/074,725
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: US 60/096,409
; PRIOR FILING DATE: 1998-08-13
; NUMBER OF SEQ ID NOS: 28208
; SEQ ID NO 16058
; LENGTH: 207
; TYPE: PRT
; ORGANISM: Candida albicans
; FEATURE:
; NAME/KEY: UNSURE
; LOCATION: (204)
; OTHER INFORMATION: Identity of amino acid sequences at the above locations are unknown
US-09-248-796A-16058

Query Match      2.9%; Score 13; DB 4; Length 207;
Best Local Similarity 100.0%; Pred. No. 0.0003;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 341 TTTTNTTTTTTTTT 353
Db 61 TTTTNTTTTTTTTT 73

RESULT 53
US-09-060-767B-3
; Sequence 3, Application US/09060767B
; Patent No. 6720152
; GENERAL INFORMATION:
; APPLICANT: Weil, Gary
; APPLICANT: Chandrashekar, Ramaswamy
; TITLE OF INVENTION: Diagnosis of Histoplasmosis Using Antigens Specific for
; FILE REFERENCE: H. capsulatum
; FILE REFERENCE: BJCH 9986
; CURRENT APPLICATION NUMBER: US/09/060,767B
; CURRENT FILING DATE: 1998-04-15
; PRIOR APPLICATION NUMBER: 60/043,332
; PRIOR FILING DATE: 1997-04-15
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 3
; LENGTH: 211
; TYPE: PRT
; ORGANISM: Histoplasma capsulatum
US-09-060-767B-3
```

```
Query Match          2.9%; Score 13; DB 4; Length 211;
Best Local Similarity 100.0%; Pred. No. 0.00031;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 338 PPTTTTTTTTTT 350
Db 37 PPTTTTTTTTTT 49

RESULT 54
US-09-248-796A-17391
; Sequence 17391, Application US/09248796A
; Patent No. 6747137
; GENERAL INFORMATION:
; APPLICANT: Keith Weinstock et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICAN
; FILE REFERENCE: 107196.132
; CURRENT APPLICATION NUMBER: US/09/248,796A
; CURRENT FILING DATE: 1999-02-12
; PRIOR APPLICATION NUMBER: US 60/074,725
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: US 60/096,409
; PRIOR FILING DATE: 1998-08-13
; NUMBER OF SEQ ID NOS: 28208
; SEQ ID NO 17391
; LENGTH: 216
; TYPE: PRT
; ORGANISM: Candida albicans
; NAME/KEY: UNSURE
; LOCATION: (212)
; OTHER INFORMATION: Identity of amino acid sequences at the above locations are unknc
US-09-248-796A-17391

Query Match          2.9%; Score 13; DB 4; Length 216;
Best Local Similarity 100.0%; Pred. No. 0.00032;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 341 TTTTTTTTTTTT 353
Db 74 TTTTTTTTTTTT 86

RESULT 55
US-09-248-796A-24111
; Sequence 24111, Application US/09248796A
; Patent No. 6747137
; GENERAL INFORMATION:
; APPLICANT: Keith Weinstock et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICAN
; FILE REFERENCE: 107196.132
; CURRENT APPLICATION NUMBER: US/09/248,796A
; CURRENT FILING DATE: 1999-02-12
; PRIOR APPLICATION NUMBER: US 60/074,725
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: US 60/096,409
; PRIOR FILING DATE: 1998-08-13
; NUMBER OF SEQ ID NOS: 28208
; SEQ ID NO 24111
; LENGTH: 247
; TYPE: PRT
; ORGANISM: Candida albicans
US-09-248-796A-24111

Query Match          2.9%; Score 13; DB 4; Length 247;
Best Local Similarity 100.0%; Pred. No. 0.00036;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 341 TTTTTTTTTTTT 353
Db 58 TTTTTTTTTTTT 70
```

```
RESULT 56
US-09-216-393B-341
; Sequence 341, Application US/09216393B
; Patent No. 6514694
; GENERAL INFORMATION:
; APPLICANT: Milhausen, Michael James
; TITLE OF INVENTION: TOXOPLASMA GONDII PROTEINS, NUCLEIC ACID MOLECULES, AND USES THERE
; FILE REFERENCE: TX-1-C2
; CURRENT APPLICATION NUMBER: US/09/216,393B
; CURRENT FILING DATE: 1998-12-18
; PRIOR APPLICATION NUMBER: 08/994,825
; PRIOR FILING DATE: 1997-12-19
; NUMBER OF SEQ ID NOS: 366
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 341
; LENGTH: 288
; TYPE: PRT
; ORGANISM: Toxoplasma gondii
US-09-216-393B-341

Query Match          2.9%; Score 13; DB 4; Length 288;
Best Local Similarity 100.0%; Pred. No. 0.00041;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 341 TTTTTTTTTTTT 353
Db 164 TTTTTTTTTTTT 176

RESULT 57
US-09-216-393B-344
; Sequence 344, Application US/09216393B
; Patent No. 6514694
; GENERAL INFORMATION:
; APPLICANT: Milhausen, Michael James
; TITLE OF INVENTION: TOXOPLASMA GONDII PROTEINS, NUCLEIC ACID MOLECULES, AND USES THERE
; FILE REFERENCE: TX-1-C2
; CURRENT APPLICATION NUMBER: US/09/216,393B
; CURRENT FILING DATE: 1998-12-18
; PRIOR APPLICATION NUMBER: 08/994,825
; PRIOR FILING DATE: 1997-12-19
; NUMBER OF SEQ ID NOS: 366
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 344
; LENGTH: 288
; TYPE: PRT
; ORGANISM: Toxoplasma gondii
US-09-216-393B-344

Query Match          2.9%; Score 13; DB 4; Length 288;
Best Local Similarity 100.0%; Pred. No. 0.00041;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 341 TTTTTTTTTTTT 353
Db 164 TTTTTTTTTTTT 176

RESULT 58
US-09-248-796A-25055
; Sequence 25055, Application US/09248796A
; Patent No. 6747137
; GENERAL INFORMATION:
; APPLICANT: Keith Weinstock et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICAN
; FILE REFERENCE: 107196.132
; CURRENT APPLICATION NUMBER: US/09/248,796A
; CURRENT FILING DATE: 1999-02-12
; PRIOR APPLICATION NUMBER: US 60/074,725
; PRIOR FILING DATE: 1998-02-13
```

```
; PRIOR APPLICATION NUMBER: US 60/096,409
; PRIOR FILING DATE: 1998-08-13
; NUMBER OF SEQ ID NOS: 28208
; SEQ ID NO 25055
; LENGTH: 292
; TYPE: PRT
; ORGANISM: Candida albicans
; FEATURE:
; NAME/KEY: UNSURE
; LOCATION: (287),(288),(289)
; OTHER INFORMATION: Identity of amino acid sequences at the above locations are unknown
US-09-248-796A-25055

Query Match      2.9%; Score 13; DB 4; Length 292;
Best Local Similarity 100.0%; Pred. No. 0.00042;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 341 TTTTITTTTTTTT 353
Db 95 TTTTITTTTTTTT 107

RESULT 59
US-09-778-510-4
; Sequence 4, Application US/09778510
; Patent No. 6512095
; GENERAL INFORMATION:
; APPLICANT: Baum, Peter
; TITLE OF INVENTION: Molecules Designated B7L1
; FILE REFERENCE: 2844-US
; CURRENT APPLICATION NUMBER: US/09/778,510
; CURRENT FILING DATE: 2001-02-07
; PRIOR APPLICATION NUMBER: PCT/US99/17906
; PRIOR FILING DATE: 1999-08-05
; PRIOR APPLICATION NUMBER: 60/095,663
; PRIOR FILING DATE: 1998-08-07
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 4
; LENGTH: 398
; TYPE: PRT
; ORGANISM: Mus musculus
US-09-778-510-4

Query Match      2.9%; Score 13; DB 4; Length 398;
Best Local Similarity 100.0%; Pred. No. 0.00056;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 419 DADTAIINAGGQ 431
Db 375 DADTAIINAGGQ 387

RESULT 60
US-09-778-510-6
; Sequence 6, Application US/09778510
; Patent No. 6512095
; GENERAL INFORMATION:
; APPLICANT: Baum, Peter
; TITLE OF INVENTION: Molecules Designated B7L1
; FILE REFERENCE: 2844-US
; CURRENT APPLICATION NUMBER: US/09/778,510
; CURRENT FILING DATE: 2001-02-07
; PRIOR APPLICATION NUMBER: PCT/US99/17906
; PRIOR FILING DATE: 1999-08-05
; PRIOR APPLICATION NUMBER: 60/095,663
; PRIOR FILING DATE: 1998-08-07
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 6
; LENGTH: 398
; TYPE: PRT
; ORGANISM: Homo sapien
```

```
US-09-778-510-6

Query Match      2.9%; Score 13; DB 4; Length 398;
Best Local Similarity 100.0%; Pred. No. 0.00056;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 419 DADTAIINAGGQ 431
Db 375 DADTAIINAGGQ 387

RESULT 61
US-09-907-794A-84
; Sequence 84, Application US/09907794A
; Patent No. 6635468
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/907,794A
; CURRENT FILING DATE: 2001-07-17
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
```

```

; PRIOR FILING DATE: 1999-12-16.
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 84
; LENGTH: 398
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-907-794A-84

Query Match          2.9%; Score 13; DB 4; Length 398;
Best Local Similarity 100.0%; Pred. No. 0.00056;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 419 DADTAIINAEQQ 431
Db 375 DADTAIINAEQQ 387

RESULT 62
US-09-905-125A-84
; Sequence 84, Application US/09905125A
; Patent No. 6664376
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Aeshkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: 10466-14
; CURRENT FILING DATE: 2001-07-12
; PRIOR APPLICATION NUMBER: US/09/905/125A
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547

```

```

; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 84
; LENGTH: 398
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-905-125A-84

Query Match          2.9%; Score 13; DB 4; Length 398;
Best Local Similarity 100.0%; Pred. No. 0.00056;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 419 DADTAIINAEQQ 431
Db 375 DADTAIINAEQQ 387

RESULT 63
US-09-902-775A-84
; Sequence 84, Application US/09902775A
; Patent No. 6686451
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: 10466-14
; CURRENT FILING DATE: 2001-07-10
; PRIOR APPLICATION NUMBER: US/09/902,775A
; PRIOR FILING DATE: 1999-07-10
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048

```

; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 84
; LENGTH: 398
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-902-775A-84

Query Match 2.9%; Score 13; DB 4; Length 398;
Best Local Similarity 100.0%; Pred. No. 0.00056;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 419 DADTAIINAEGGQ 431
| | | | | | | | | |
Db 375 DADTAIINAEGGQ 387

RESULT 64
US-09-906-700-84
; Sequence 84, Application US/09906700
; Patent No. 6723535
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann

; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/906,700
; CURRENT FILING DATE: 2000-09-18
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 84
; LENGTH: 398
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-906-700-84

Query Match 2.9%; Score 13; DB 4; Length 398;
Best Local Similarity 100.0%; Pred. No. 0.00056;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 419 DADTAIINAEGGQ 431
| | | | | | | | | |
Db 375 DADTAIINAEGGQ 387

RESULT 65
US-09-903-603A-84
; Sequence 84, Application US/09903603A
; Patent No. 6767995
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang

; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerriteen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: GNE.1618P2C12
; CURRENT APPLICATION NUMBER: US/09/903,603A
; CURRENT FILING DATE: 2001-07-11
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 84
; LENGTH: 398
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-903-603A-84

Query Match 2.9%; Score 13; DB 4; Length 398;
Best Local Similarity 100.0%; Pred. No. 0.00056;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 419 DADTAIINAEGGQ 431
Db 375 DADTAIINAEGGQ 387

RESULT 66
US-09-904-920A-84

; Sequence 84. Application US/09904920A
; Patent No. 6806352
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/904,920A
; CURRENT FILING DATE: 2001-07-13
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 84
; LENGTH: 398
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-904-920A-84

```
Query Match          2.9%; Score 13; DB 4; Length 398;
Best Local Similarity 100.0%; Pred. No. 0.00056;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 419 DADTAIINAEQQ 431
Db 375 DADTAIINAEQQ 387

RESULT 67
US-09-909-064-84
; Sequence 84, Application US/09909064
; Patent No. 6818449
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnovers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kijavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/909,064
; CURRENT FILING DATE: 2001-07-18
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16

Query Match          2.9%; Score 13; DB 4; Length 398;
Best Local Similarity 100.0%; Pred. No. 0.00056;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 419 DADTAIINAEQQ 431
Db 375 DADTAIINAEQQ 387

RESULT 68
US-09-905-381A-84
; Sequence 84, Application US/09905381A
; Patent No. 6818746
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnovers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kijavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/905,381A
; CURRENT FILING DATE: 2001-07-13
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
```

; PRIOR APPLICATION NUMBER: PCT/US99/23089
 ; PRIOR FILING DATE: 1999-10-05
 ; PRIOR APPLICATION NUMBER: PCT/US99/28214
 ; PRIOR FILING DATE: 1999-11-29
 ; PRIOR APPLICATION NUMBER: PCT/US99/28313
 ; PRIOR FILING DATE: 1999-11-30
 ; PRIOR APPLICATION NUMBER: PCT/US99/28564
 ; PRIOR FILING DATE: 1999-12-02
 ; PRIOR APPLICATION NUMBER: PCT/US99/28565
 ; PRIOR FILING DATE: 1999-12-02
 ; PRIOR APPLICATION NUMBER: PCT/US99/30095
 ; PRIOR FILING DATE: 1999-12-16
 ; PRIOR APPLICATION NUMBER: PCT/US99/30911
 ; PRIOR FILING DATE: 1999-12-20
 ; PRIOR APPLICATION NUMBER: PCT/US99/30999
 ; PRIOR FILING DATE: 1999-12-20
 ; PRIOR APPLICATION NUMBER: PCT/US00/00219
 ; PRIOR FILING DATE: 2000-01-05
 ; NUMBER OF SEQ ID NOS: 423
 ; SEQ ID NO 84
 ; LENGTH: 398
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 US-09-905-381A-84

Query Match 2.9%; Score 13; DB 4; Length 398;
 Best Local Similarity 100.0%; Pred. No. 0.00056;
 Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 419 DADTAIINAEQQ 431
 |||||
 Db 375 DADTAIINAEQQ 387

RESULT 69
 US-09-906-618-84
 ; Sequence 84, Application US/09906618
 ; Patent No. 6828146
 ; GENERAL INFORMATION:
 ; APPLICANT: Genentech, Inc.
 ; APPLICANT: Ashkenazi, Avi
 ; APPLICANT: Botstein, David
 ; APPLICANT: Desnovers, Luc
 ; APPLICANT: Eaton, Dan L.
 ; APPLICANT: Ferrara, Napoleone
 ; APPLICANT: Filvaroff, Ellen
 ; APPLICANT: Fong, Sherman
 ; APPLICANT: Gao, Wei-Qiang
 ; APPLICANT: Gerber, Hanspeter
 ; APPLICANT: Gerritsen, Mary E.
 ; APPLICANT: Goddard, A.
 ; APPLICANT: Godowski, Paul J.
 ; APPLICANT: Grimaldi, Christopher J.
 ; APPLICANT: Gurney, Austin L.
 ; APPLICANT: Hillan, Kenneth, J.
 ; APPLICANT: Kijavlin, Ivar J.
 ; APPLICANT: Mather, Jennie P.
 ; APPLICANT: Pan, James
 ; APPLICANT: Paoni, Nicholas P.
 ; APPLICANT: Roy, Margaret Ann
 ; APPLICANT: Stewart, Timothy A.
 ; APPLICANT: Tumas, Daniel
 ; APPLICANT: Williams, P. Mickey
 ; APPLICANT: Wood, William, I.
 ; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
 ; TITLE OF INVENTION: Acids Encoding the Same
 ; FILE REFERENCE: 10466-14
 ; CURRENT APPLICATION NUMBER: US/09/906.618
 ; CURRENT FILING DATE: 2001-07-16
 ; PRIOR APPLICATION NUMBER: PCT/US00/04414
 ; PRIOR FILING DATE: 2000-02-22
 ; PRIOR APPLICATION NUMBER: US 60/143,048
 ; PRIOR FILING DATE: 1999-07-07

; PRIOR APPLICATION NUMBER: US 60/145,698
 ; PRIOR FILING DATE: 1999-07-26
 ; PRIOR APPLICATION NUMBER: US 60/146,222
 ; PRIOR FILING DATE: 1999-07-28
 ; PRIOR APPLICATION NUMBER: PCT/US99/20594
 ; PRIOR FILING DATE: 1999-09-08
 ; PRIOR APPLICATION NUMBER: PCT/US99/20944
 ; PRIOR FILING DATE: 1999-09-13
 ; PRIOR APPLICATION NUMBER: PCT/US99/21090
 ; PRIOR FILING DATE: 1999-09-15
 ; PRIOR APPLICATION NUMBER: PCT/US99/21547
 ; PRIOR FILING DATE: 1999-09-15
 ; PRIOR APPLICATION NUMBER: PCT/US99/23089
 ; PRIOR FILING DATE: 1999-10-05
 ; PRIOR APPLICATION NUMBER: PCT/US99/28214
 ; PRIOR FILING DATE: 1999-11-29
 ; PRIOR APPLICATION NUMBER: PCT/US99/28313
 ; PRIOR FILING DATE: 1999-11-30
 ; PRIOR APPLICATION NUMBER: PCT/US99/28564
 ; PRIOR FILING DATE: 1999-12-02
 ; PRIOR APPLICATION NUMBER: PCT/US99/28565
 ; PRIOR FILING DATE: 1999-12-02
 ; PRIOR APPLICATION NUMBER: PCT/US99/30095
 ; PRIOR FILING DATE: 1999-12-16
 ; PRIOR APPLICATION NUMBER: PCT/US99/30911
 ; PRIOR FILING DATE: 1999-12-20
 ; PRIOR APPLICATION NUMBER: PCT/US99/30999
 ; PRIOR FILING DATE: 1999-12-20
 ; PRIOR APPLICATION NUMBER: PCT/US00/00219
 ; PRIOR FILING DATE: 2000-01-05
 ; NUMBER OF SEQ ID NOS: 423
 ; SEQ ID NO 84
 ; LENGTH: 398
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 US-09-906-618-84

Query Match 2.9%; Score 13; DB 4; Length 398;
 Best Local Similarity 100.0%; Pred. No. 0.00056;
 Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 419 DADTAIINAEQQ 431
 |||||
 Db 375 DADTAIINAEQQ 387

RESULT 70
 US-08-659-984A-1
 ; Sequence 1, Application US/08659984A
 ; Patent No. 5942400
 ; GENERAL INFORMATION:
 ; APPLICANT: Anderson, John P.
 ; APPLICANT: Sinha, Sukanto
 ; APPLICANT: Jacobson-Croak, Kirsten L.
 ; TITLE OF INVENTION: Assays for Detecting Beta-Secretase
 ; TITLE OF INVENTION: Inhibition
 ; NUMBER OF SEQUENCES: 21
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Townsend and Townsend and Crew LLP
 ; STREET: Two Embarcadero Ctr., 8th Floor
 ; CITY: San Francisco
 ; STATE: California
 ; COUNTRY: USA
 ; ZIP: 94111-3834
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: PatentIn Release #1.0, Version #1.25
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/659,984A
 ; FILING DATE: 07-JUN-1996
 ; CLASSIFICATION: 436

```
;
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/485,152
; FILING DATE: 07-JUN-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Heslin, James M.
; REGISTRATION NUMBER: 29,541
; REFERENCE/DOCKET NUMBER: 15270-002810US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-326-2400
; TELEFAX: 415-326-2422
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 421 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-659-984A-1

Query Match      2.9%; Score 13; DB 2; Length 421;
Best Local Similarity 100.0%; Pred. No. 0.00059;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      303 LNKTDNGTYRCEA 315
Db      272 LNKTDNGTYRCEA 284
|||||

RESULT 71
US-09-778-510-2
; Sequence 2, Application US/09778510
; Patent No. 6512095
; GENERAL INFORMATION:
; APPLICANT: Baum, Peter
; TITLE OF INVENTION: Molecules Designated B7L1
; FILE REFERENCE: 2844-US
; CURRENT APPLICATION NUMBER: US/09/778,510
; PRIOR FILING DATE: 2001-02-07
; PRIOR APPLICATION NUMBER: PCT/US99/17906
; PRIOR FILING DATE: 1999-08-05
; PRIOR APPLICATION NUMBER: 60/095,663
; PRIOR FILING DATE: 1998-08-07
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2
; LENGTH: 432
; TYPE: PRT
; ORGANISM: Homo sapien
; US-09-778-510-2

Query Match      2.9%; Score 13; DB 4; Length 432;
Best Local Similarity 100.0%; Pred. No. 0.0006;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      419 DADTAIINAEQGQ 431
Db      409 DADTAIINAEQGQ 421
|||||

RESULT 73
US-08-659-984A-5
; Sequence 5, Application US/08659984A
; Patent No. 5942400
; GENERAL INFORMATION:
; APPLICANT: Anderson, John P.
; APPLICANT: Sinha, Sukanto
; APPLICANT: Jacobson-Croak, Kirsten L.
; TITLE OF INVENTION: Assays for Detecting Beta-Secretase
; TITLE OF INVENTION: Inhibition
; NUMBER OF SEQUENCES: 21
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Townsend and Townsend and Crew LLP
; STREET: Two Embarcadero Ctr., 8th Floor
; CITY: San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94111-3834
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; FILING DATE:
; PRIOR APPLICATION DATA:
; CLASSIFICATION: 435
; APPLICATION NUMBER: US 08/480,498
; FILING DATE: 07-JUN-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Heslin, James M.
; REGISTRATION NUMBER: 29,541
; REFERENCE/DOCKET NUMBER: 15270-002210US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-326-2400
; TELEFAX: 415-326-2422
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 421 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-660-531-1

; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/485,152
; FILING DATE: 07-JUN-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Heslin, James M.
; REGISTRATION NUMBER: 29,541
; REFERENCE/DOCKET NUMBER: 15270-002810US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-326-2400
; TELEFAX: 415-326-2422
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 421 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-660-531-1
```

REGISTRATION NUMBER: 29,541
REFERENCE/DOCKET NUMBER: 15270-002810US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-326-2400
TELEFAX: 415-326-2422
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 444 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-659-984A-5

Query Match 2.9%; Score 13; DB 2; Length 444;
Best Local Similarity 100.0%; Pred. No. 0.00062;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 303 LNKTDNGTYRCEA 315
Db 295 LNKTDNGTYRCEA 307

RESULT 74

US-08-660-531-5
Sequence 5, Application US/08660531
Patent No. 6221645
GENERAL INFORMATION:
APPLICANT: Chrysler, Susanna M.S.
APPLICANT: Sinha, Sukanto
APPLICANT: Keim, Pamela S.
APPLICANT: Anderson, John P.
TITLE OF INVENTION: Beta-Secretase
NUMBER OF SEQUENCES: 21
CORRESPONDENCE ADDRESS:
ADDRESSEE: Townsend and Townsend and Crew LLP
STREET: Two Embarcadero Ctr., 8th Floor
CITY: San Francisco
STATE: California
COUNTRY: USA
ZIP: 94111-3834
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/660,531
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/480,498
FILING DATE: 07-JUN-1995
ATTORNEY/AGENT INFORMATION:
NAME: Heslin, James M.
REGISTRATION NUMBER: 29,541
REFERENCE/DOCKET NUMBER: 15270-002210US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-326-2400
TELEFAX: 415-326-2422
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 444 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-660-531-5

Query Match 2.9%; Score 13; DB 3; Length 444;
Best Local Similarity 100.0%; Pred. No. 0.00062;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 303 LNKTDNGTYRCEA 315
Db 295 LNKTDNGTYRCEA 307

RESULT 75

US-09-248-796A-22504
Sequence 22504, Application US/09248796A
Patent No. 6747137
GENERAL INFORMATION:
APPLICANT: Keith Weinstock et al
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICAN
FILE OF INVENTION: FOR DIAGNOSTICS AND THERAPEUTICS
FILE REFERENCE: 107196.132
CURRENT APPLICATION NUMBER: US/09/248,796A
CURRENT FILING DATE: 1999-02-12
PRIOR APPLICATION NUMBER: US 60/074,725
PRIOR FILING DATE: 1998-02-13
PRIOR APPLICATION NUMBER: US 60/096,409
PRIOR FILING DATE: 1998-08-13
NUMBER OF SEQ ID NOS: 28208
SEQ ID NO 22504
LENGTH: 543
TYPE: PRT
ORGANISM: Candida albicans
US-09-248-796A-22504

Query Match 2.9%; Score 13; DB 4; Length 543;
Best Local Similarity 100.0%; Pred. No. 0.00075;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 341 TTTTNTTTTTTTTT 353
Db 372 TTTTNTTTTTTTTT 384

Search completed: June 28, 2005, 10:22:30
Job time : 34.659 secs

THIS PAGE BLANK (USPTO)

GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.

QM protein - protein search, using sw model

Run on: June 28, 2005, 10:07:28 ; Search time 25.4289 Seconds
(without alignments)

1600.529 Million cell updates/sec

Title: US-10-622-237-4

Perfect score: 423

Sequence: 1 APPGRLRLLLLLLSAAL.....TAIINAEGGQNNSEKKEYP 423

Scoring table:

OLIGO Gapop 60.0 , Gapext 60.0

Searched: 283416 seqs, 96216763 residues

Word size : 0

Total number of hits satisfying chosen parameters: 283416

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 150 summaries

Database :

1: PIR 79:**

2: PIR2:**

3: PIR3:**

4: PIR4:**

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | DB ID | Description |
|------------|-------|-------------|--------|----------|---------------------|
| 1 | 15 | 3.5 | 108 | 2 T26880 | hypothetical prote |
| 2 | 15 | 3.5 | 327 | 2 S20074 | promastigote surfa |
| 3 | 14 | 3.3 | 304 | 2 T15922 | hypothetical prote |
| 4 | 14 | 3.3 | 512 | 2 T02498 | probable WRKY-type |
| 5 | 14 | 3.3 | 516 | 2 S19252 | 1-aminocyclopropan |
| 6 | 14 | 3.3 | 518 | 2 S31442 | 1-aminocyclopropan |
| 7 | 14 | 3.3 | 889 | 2 A35679 | rep protein - slim |
| 8 | 14 | 3.3 | 1832 | 2 T31113 | mucln-like glycopr |
| 9 | 13 | 3.1 | 67 | 2 B56888 | alkaline phosphata |
| 10 | 13 | 3.1 | 217 | 2 S01358 | salivary glue prot |
| 11 | 13 | 3.1 | 245 | 2 T26868 | hypothetical prote |
| 12 | 13 | 3.1 | 274 | 2 A45632 | merozoite surface |
| 13 | 13 | 3.1 | 278 | 2 S39310 | merozoite surface |
| 14 | 13 | 3.1 | 284 | 2 T22023 | hypothetical prote |
| 15 | 13 | 3.1 | 341 | 2 T32949 | hypothetical prote |
| 16 | 13 | 3.1 | 517 | 2 T20658 | probable zinc meta |
| 17 | 13 | 3.1 | 519 | 2 T23739 | hypothetical prote |
| 18 | 13 | 3.1 | 551 | 2 S18408 | alkaline phosphata |
| 19 | 13 | 3.1 | 560 | 2 T32661 | hypothetical prote |
| 20 | 13 | 3.1 | 651 | 2 T21175 | hypothetical prote |
| 21 | 13 | 3.1 | 781 | 2 S51592 | XyNB precursor - R |
| 22 | 13 | 3.1 | 831 | 2 T08611 | hypothetical prote |
| 23 | 13 | 3.1 | 975 | 2 T08606 | protein phosphatas |
| 24 | 13 | 3.1 | 1023 | 2 S12519 | glutactin - fruit |
| 25 | 13 | 3.1 | 1076 | 2 JC2217 | major surface glyco |
| 26 | 13 | 3.1 | 1083 | 2 JC2300 | cell surface glyco |
| 27 | 13 | 3.1 | 1099 | 2 T18257 | phospholipase C - |
| 28 | 13 | 3.1 | 1282 | 2 JE0120 | glycoprotein A - m |
| 29 | 13 | 3.1 | 1402 | 2 T17456 | cell surface prote |

| | | | | | |
|-----|----|-----|------|----------|---------------------|
| 30 | 13 | 3.1 | 1635 | 2 T14075 | chitinase (EC 3.2. |
| 31 | 13 | 3.1 | 1671 | 2 S71628 | sensory transducti |
| 32 | 13 | 3.1 | 1737 | 2 A52235 | unconventional myo |
| 33 | 13 | 3.1 | 1858 | 2 T18273 | 1-phosphatidylinos |
| 34 | 12 | 2.8 | 183 | 2 S05358 | hypothetical prote |
| 35 | 12 | 2.8 | 342 | 2 T29557 | hypothetical prote |
| 36 | 12 | 2.8 | 458 | 2 T31631 | hypothetical prote |
| 37 | 12 | 2.8 | 477 | 2 A54843 | nemo, form I - fru |
| 38 | 12 | 2.8 | 524 | 2 S33640 | homeotic protein s |
| 39 | 12 | 2.8 | 530 | 2 T32812 | hypothetical prote |
| 40 | 12 | 2.8 | 559 | 2 B36307 | alkaline phosphata |
| 41 | 12 | 2.8 | 680 | 2 T19939 | hypothetical prote |
| 42 | 12 | 2.8 | 681 | 2 T23454 | hypothetical prote |
| 43 | 12 | 2.8 | 698 | 2 A54796 | regulatory protein |
| 44 | 12 | 2.8 | 802 | 2 A36910 | xylanase, beta(1,3 |
| 45 | 12 | 2.8 | 825 | 2 T29634 | hypothetical prote |
| 46 | 12 | 2.8 | 1002 | 2 T30546 | major surface glyco |
| 47 | 12 | 2.8 | 3712 | 2 S18253 | laminin alpha-1 ch |
| 48 | 12 | 2.8 | 4377 | 2 A55575 | ankyrin 3, long sp |
| 49 | 11 | 2.6 | 139 | 2 D86417 | probable auxin-ind |
| 50 | 11 | 2.6 | 164 | 2 T26561 | hypothetical prote |
| 51 | 11 | 2.6 | 166 | 2 C90029 | hypothetical prote |
| 52 | 11 | 2.6 | 208 | 2 T46896 | merozoite surface |
| 53 | 11 | 2.6 | 234 | 2 T26560 | hypothetical prote |
| 54 | 11 | 2.6 | 263 | 2 S01360 | salivary glue prot |
| 55 | 11 | 2.6 | 373 | 2 T25596 | hypothetical prote |
| 56 | 11 | 2.6 | 385 | 2 JC7783 | RAD 23B protein - |
| 57 | 11 | 2.6 | 415 | 2 T32467 | hypothetical prote |
| 58 | 11 | 2.6 | 484 | 2 S58868 | G protein-coupled |
| 59 | 11 | 2.6 | 525 | 2 A35596 | nuclear pore glyco |
| 60 | 11 | 2.6 | 526 | 2 A56573 | nuclear pore compl |
| 61 | 11 | 2.6 | 558 | 2 A98199 | translocated intim |
| 62 | 11 | 2.6 | 568 | 2 E86045 | probable transloca |
| 63 | 11 | 2.6 | 569 | 2 S47277 | gp88 protein - mur |
| 64 | 11 | 2.6 | 649 | 2 T24505 | hypothetical prote |
| 65 | 11 | 2.6 | 662 | 2 A45155 | mucin FIM-C.1 - Af |
| 66 | 11 | 2.6 | 732 | 2 T25937 | hypothetical prote |
| 67 | 11 | 2.6 | 770 | 2 T22808 | hypothetical prote |
| 68 | 11 | 2.6 | 816 | 2 C69493 | hypothetical prote |
| 69 | 11 | 2.6 | 977 | 2 T16232 | hypothetical prote |
| 70 | 11 | 2.6 | 1093 | 2 T18275 | 1-phosphatidylinos |
| 71 | 11 | 2.6 | 1271 | 2 D64237 | hypothetical prote |
| 72 | 11 | 2.6 | 1762 | 2 I38346 | elastic titin - hu |
| 73 | 10 | 2.4 | 127 | 2 T51538 | nitrilase associat |
| 74 | 10 | 2.4 | 232 | 2 A60095 | larval glue protei |
| 75 | 10 | 2.4 | 307 | 1 GSPF3 | salivary glue prot |
| 76 | 10 | 2.4 | 388 | 2 T16861 | hypothetical prote |
| 77 | 10 | 2.4 | 390 | 2 T49619 | hypothetical prote |
| 78 | 10 | 2.4 | 393 | 2 B86189 | protein T2SN20.9 l |
| 79 | 10 | 2.4 | 395 | 2 T45599 | hypothetical prote |
| 80 | 10 | 2.4 | 435 | 2 T25350 | hypothetical prote |
| 81 | 10 | 2.4 | 468 | 2 A55476 | protein kinase (EC |
| 82 | 10 | 2.4 | 572 | 2 T16865 | hypothetical prote |
| 83 | 10 | 2.4 | 577 | 2 G89430 | protein K02E2.3 l |
| 84 | 10 | 2.4 | 645 | 2 T29818 | hypothetical prote |
| 85 | 10 | 2.4 | 648 | 1 JQ1150 | protein kinase (EC |
| 86 | 10 | 2.4 | 712 | 1 I46031 | gelatinase B (EC 3 |
| 87 | 10 | 2.4 | 947 | 2 T08605 | hypothetical prote |
| 88 | 10 | 2.4 | 1008 | 2 T30544 | major surface glyco |
| 89 | 10 | 2.4 | 1017 | 2 T30542 | major surface glyco |
| 90 | 10 | 2.4 | 1022 | 2 T30543 | B-cell receptor pr |
| 91 | 10 | 2.4 | 1030 | 2 T18374 | masquerade precurs |
| 92 | 10 | 2.4 | 1047 | 2 A55617 | nosaA protein - sli |
| 93 | 10 | 2.4 | 1089 | 2 T14576 | trfA protein - sli |
| 94 | 10 | 2.4 | 1390 | 2 T14004 | hypothetical prote |
| 95 | 10 | 2.4 | 1513 | 2 T23681 | gene posterior sex |
| 96 | 10 | 2.4 | 1603 | 2 S17983 | hypothetical prote |
| 97 | 9 | 2.1 | 124 | 2 T48833 | hypothetical prote |
| 98 | 9 | 2.1 | 167 | 2 T33602 | hypothetical prote |
| 99 | 9 | 2.1 | 187 | 2 T49491 | hypothetical prote |
| 100 | 9 | 2.1 | 195 | 2 T19617 | hypothetical prote |
| 101 | 9 | 2.1 | 202 | 2 F86755 | prophage pi2 prote |
| 102 | 9 | 2.1 | 213 | 2 T23865 | hypothetical prote |

103 2.1 327 2 T49514
104 2.1 371 2 S20075
105 2.1 372 2 T14193
106 2.1 384 2 A44146
107 2.1 394 2 T20633
108 2.1 422 2 T49513
109 2.1 492 2 A41907
110 2.1 500 1 EPFF
111 2.1 708 2 T29669
112 2.1 788 2 S05661
113 2.1 1014 2 T18759
114 2.1 1061 2 OYHUAR
115 2.1 1272 2 T30248
116 2.1 1335 2 T18289
117 2.1 1408 2 S16148
118 2.1 1510 2 T33100
119 2.1 1570 2 T18272
120 2.1 1733 1 B45344
121 2.1 3672 2 T23433
122 2.1 3704 2 T37316
123 8 1.9 29 2 I52628
124 8 1.9 61 1 DNVBPF
125 8 1.9 76 2 B96809
126 8 1.9 83 2 G84620
127 8 1.9 127 2 S03446
128 8 1.9 147 2 T01039
129 8 1.9 169 2 T32698
130 8 1.9 176 2 T26212
131 8 1.9 180 2 B45613
132 8 1.9 184 2 S12095
133 8 1.9 192 2 C70172
134 8 1.9 193 2 T24370
135 8 1.9 201 2 JC8038
136 8 1.9 210 2 T49785
137 8 1.9 213 2 T41130
138 8 1.9 224 2 G86148
139 8 1.9 228 2 AH0504
140 8 1.9 258 2 T33409
141 8 1.9 270 2 T41759
142 8 1.9 272 2 G71618
143 8 1.9 275 2 S09774
144 8 1.9 279 2 T26166
145 8 1.9 285 2 T20506
146 8 1.9 286 2 B45632
147 8 1.9 287 2 B39615
148 8 1.9 300 2 A39112
149 8 1.9 302 2 A39615
150 8 1.9 302 2 C86480

ALIGNMENTS

RESULT 1
T26880
hypothetical protein Y43F8C.9 - Caenorhabditis elegans
C;Species: Caenorhabditis elegans
C;Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 09-Jul-2004
C;Accession: T26880
R;Ainscough, R.
submitted to the EMBL Data Library, October 1998
A;Reference number: Z20279
A;Accession: T26880
A;Status: preliminary; translated from GB/EMBL/DBJ
A;Molecule type: DNA
A;Residues: 1-108 <WIL>
A;Cross-references: UNIPROT:Q9XWNO; EMBL:AL032637; PIDN:CAA21621.1; CBSP:Y43F8C.9
A;Experimental source: clone Y43F8C
C;Genetics:
A;Gene: CBSP:Y43F8C.9
A;Introns: 40/3
Query Match 3.5%; Score 15; DB 2; Length 108;

Best Local Similarity 100.0%; Pred. No. 2.4e-06;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 321 PPTTTTPTTTTTTTT 335
DB 48 PPTTTTPTTTTTTTT 62
RESULT 2
S20074
promastigote surface antigen P2 (clone 4.6) precursor - Leishmania major (fragment)
C;Species: Leishmania major
C;Date: 13-Jan-1995 #sequence_revision 06-Feb-1998 #text_change 09-Jul-2004
C;Accession: S20074; D41710
R;Murray, P.J.; Spithill, T.W.
J. Biol. Chem. 266, 24477-24484, 1991
A;Title: Variants of a Leishmania surface antigen derived from a multigenic family.
A;Reference number: A41710; MUID:92105105; PMID:1761547
A;Accession: S20074
A;Molecule type: mRNA
A;Residues: 1-327 <MUR>
A;Cross-references: UNIPROT:Q25334; EMBL:X57135; NID:G9582; PID:G9583
C;Keywords: blocked carboxyl end; Glycoprotein; lipoprotein; phosphatidylinositol linkage
F;1-299/Product: promastigote surface antigen P2 (fragment) #status predicted <PSA>
F;300-327/Domain: carboxyl-terminal propeptide #status predicted <CTP>
F;299/Modified site: GPI-anchor ethanolamine amidated carboxyl end (Asp) (in mature form)
Query Match 3.5%; Score 15; DB 2; Length 327;
Best Local Similarity 100.0%; Pred. No. 6e-06;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 321 PPTTTTPTTTTTTTT 335
DB 183 PPTTTTPTTTTTTTT 197
RESULT 3
T15922
hypothetical protein BEED8.11 - Caenorhabditis elegans
C;Species: Caenorhabditis elegans
C;Date: 20-Sep-1999 #sequence_revision 20-Sep-1999 #text_change 09-Jul-2004
C;Accession: T15922
R;Chissole, S.
submitted to the EMBL Data Library, July 1995
A;Description: The sequence of C. elegans cosmid BEED8.
A;Reference number: Z18428
A;Accession: T15922
A;Status: preliminary; translated from GB/EMBL/DBJ
A;Molecule type: DNA
A;Residues: 1-304 <CHI>
A;Cross-references: UNIPROT:Q09300; EMBL:U23484; NID:G733597; PID:G733608; PIDN:AAC46771.
A;Experimental source: strain Bristol N2
C;Genetics:
A;Gene: CBSP:BEED8.11
A;Introns: 27/1; 242/2
Query Match 3.3%; Score 14; DB 2; Length 304;
Best Local Similarity 100.0%; Pred. No. 4.9e-05;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 322 PTTTPTTTTTTTTTT 335
DB 67 PTTTPTTTTTTTTTT 80
RESULT 4
T02498
probable WRKY-type DNA binding protein At2G38470 [imported] - Arabidopsis thaliana
N;Alternate names: hypothetical protein T19C21.4
C;Species: Arabidopsis thaliana (mouse-ear cress)
C;Date: 05-Mar-1999 #sequence_revision 05-Mar-1999 #text_change 09-Jul-2004
C;Accession: T02498; D94805
R;Rounsley, S.D.; Lin, X.; Ketchum, K.A.; Crosby, M.L.; Brandon, R.C.; Sykes, S.M.; Kaul,

submitted to the EMBL Data Library, August 1998
A;Description: Arabidopsis thaliana chromosome II BAC T19C21 genomic sequence.
A;Reference number: Z14676
A;Accession: T02498
A;Status: translated from GB/EMBL/DBJ
A;Molecule type: DNA
A;Residues: 1-512 <ROU>
A;Cross-references: UNIPROT:Q8S8P5; EMBL:AC004683; NID:g3395421; PID:g3395425
A;Experimental source: cultivar Columbia
R;Lin, X.; Kaul, S.; Rounsley, S.D.; Shea, T.P.; Benito, M.I.; Town, C.D.; Fujii, C.Y.;
M.; Koo, H.; Moffat, K.S.; Cronin, L.A.; Shen, M.; VanAken, S.E.; Umayam, L.; Tallon, L.
euss, D.; Niekman, W.C.; White, O.; Eisen, J.A.; Salzberg, S.L.; Fraser, C.M.; Venter, J.
Nature 402, 761-768, 1999
A;Title: Sequence and analysis of chromosome 2 of the plant Arabidopsis thaliana.
A;Reference number: A84420; MUID:20083487; PMID:10617137
A;Accession: DB4805
A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-512 <STO>
A;Cross-references: GB:AE002093; NID:g6598471; PIDN:AAC67339.2; GSPDB:GN00139
C;Genetics:
A;Gene: At2g38470; T19C21.4
A;Map position: 2
A;Introns: 74/3; 143/3; 321/2; 375/2

Query Match 3.3%; Score 14; DB 2; Length 512;
Best Local Similarity 100.0%; Pred. No. 7.6e-05;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 322 TTTTITTTTTTTT 335
Db 122 TTTTITTTTTTTT 135

RESULT 5
S19252
1-aminocyclopropane-1-carboxylate synthase (EC 4.4.1.14) - clove pink
C;Species: Dianthus caryophyllus (clove pink)
C;Date: 13-Jan-1995 #sequence_revision 13-Jan-1995 #text_change 09-Jul-2004
C;Accession: S19252
R;Park, K.V.; Drory, A.; Woodson, W.R.
Plant Mol. Biol. 18, 377-386, 1992
A;Title: Molecular cloning of an 1-aminocyclopropane-1-carboxylate synthase from senesci
A;Reference number: S19252; MUID:92119258; PMID:1731995
A;Accession: S19252
A;Status: preliminary
A;Molecule type: mRNA
A;Residues: 1-516 <PAR>
A;Cross-references: UNIPROT:P27486; EMBL:M66619
C;Superfamily: 1-aminocyclopropane-1-carboxylate synthase
C;Keywords: carbon-sulfur lyase; ethylene biosynthesis; phosphoprotein; pyridoxal phosph
F;276/Binding site: pyridoxal phosphate (Lys) (covalent) #status predicted

Query Match 3.3%; Score 14; DB 2; Length 516;
Best Local Similarity 100.0%; Pred. No. 7.7e-05;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 323 TTTTITTTTTTTT 336
Db 457 TTTTITTTTTTTT 470

RESULT 6
S31442
1-aminocyclopropane-1-carboxylate synthase (EC 4.4.1.14) - clove pink
C;Species: Dianthus caryophyllus (clove pink)
C;Date: 02-Dec-1993 #sequence_revision 10-Nov-1995 #text_change 09-Jul-2004
C;Accession: S31442
R;Michael, M.Z.
submitted to the EMBL Data Library, December 1992
A;Description: Isolation of petal senescence-associated cDNA clones encoding 1-aminocycl
A;Reference number: S31442
A;Accession: S31442

A;Molecule type: mRNA
A;Residues: 1-518 <MIC>
A;Cross-references: UNIPROT:Q43753; EMBL:Z18952; NID:g18319; PIDN:CAA79477.1; PID:g18320
C;Superfamily: 1-aminocyclopropane-1-carboxylate synthase
C;Keywords: carbon-sulfur lyase; ethylene biosynthesis; phosphoprotein; pyridoxal phosph
F;278/Binding site: pyridoxal phosphate (Lys) (covalent) #status predicted

Query Match 3.3%; Score 14; DB 2; Length 518;
Best Local Similarity 100.0%; Pred. No. 7.7e-05;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 323 TTTTITTTTTTTT 336
Db 459 TTTTITTTTTTTT 472

RESULT 7
A35679
rep protein - slime mold (Dictyostelium discoideum) plasmid Ddp2
C;Species: Dictyostelium discoideum
C;Date: 28-Sep-1990 #sequence_revision 28-Sep-1990 #text_change 09-Jul-2004
C;Accession: A35679; S14202; S15811
R;Leiting, B.; Lindner, I.J.; Noegel, A.A.
Mol. Cell. Biol. 10, 3727-3736, 1990
A;Title: The extrachromosomal replication of Dictyostelium plasmid Ddp2 requires a cis-
A;Reference number: A35679; MUID:90287164; PMID:2192261
A;Accession: A35679
A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-889 <LEI>
A;Cross-references: UNIPROT:Q23895; GB:M55298; NID:g167727; PIDN:AAA33191.1; PID:g167728
R;Slade, M.B.; Chang, A.C.M.; Williams, K.L.
Plasmid 24, 195-207, 1990
A;Title: The sequence and organization of Ddp2, a high-copy-number nuclear plasmid of D
A;Reference number: S14202; MUID:91172902; PMID:2077544
A;Accession: S14202
A;Molecule type: DNA
A;Residues: 1-141, 'I', 143-780, 'E', 782-885, 'GY' <SLA1>
A;Cross-references: EMBL:X51478
R;Slade, M.B.
submitted to the EMBL Data Library, January 1990
A;Reference number: S15811
A;Accession: S15811
A;Molecule type: DNA
A;Residues: 1-141, 'I', 143-353, 'A', 355-780, 'E', 782-885, 'GY' <SLA2>
A;Cross-references: EMBL:X51478; NID:g7307; PIDN:CAA35843.1; PID:g7308
C;Genetics:
A;Gene: rep
A;Genome: plasmid

Query Match 3.3%; Score 14; DB 2; Length 889;
Best Local Similarity 100.0%; Pred. No. 0.00012;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 322 TTTTITTTTTTTT 335
Db 250 TTTTITTTTTTTT 263

RESULT 8
T31113
mucin-like glycoprotein 900 - Cryptosporidium parvum
C;Species: Cryptosporidium parvum
C;Date: 22-Oct-1999 #sequence_revision 22-Oct-1999 #text_change 09-Jul-2004
C;Accession: T31113
R;Barnes, D.A.; Bonnin, A.; Huang, J.X.; Gousset, L.; Wu, J.; Gut, J.; Doyle, P.; Dubrem
Mol. Biochem. Parasitol. 96, 93-110, 1998
A;Title: A novel multi-domain mucin-like glycoprotein of Cryptosporidium parvum mediate
A;Reference number: Z20989; MUID:99066935; PMID:9851610
A;Accession: T31113
A;Status: preliminary; translated from GB/EMBL/DBJ
A;Molecule type: DNA
A;Residues: 1-1832 <BAR>

Best Local Similarity 100.0%; Pred. No. 0.00039;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 323 TTTTNTTTTTTTTT 335
|||||
Db 101 TTTTNTTTTTTTTT 113

RESULT 14

T22023

hypothetical protein F40E10.5 - Caenorhabditis elegans

C/Species: Caenorhabditis elegans

C/Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 09-Jul-2004

C/Accession: T22023

R/Smye, R.

submitted to the EMBL Data Library, February 1996

A/Reference number: Z19503

A/Accession: T22023

A/Status: preliminary; translated from GB/EMBL/DBDJ

A/Molecule type: DNA

A/Residues: 1-284 <WIL>

A/Cross-references: UNIPROT:Q20202; EMBL:Z69792; PIDN:CAA93666.1; GSPDB:GN00028; CESP:F4

A/Experimental source: clone F40E10

C/Genetics:

A/Gene: CESP:F40E10.5

A/Map position: X

A/Introns: 34/3; 76/2; 141/3; 183/3; 240/3

Query Match 3.1%; Score 13; DB 2; Length 284;
Best Local Similarity 100.0%; Pred. No. 0.0004;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 323 TTTTNTTTTTTTTT 335
|||||
Db 214 TTTTNTTTTTTTTT 226

RESULT 15

T32949

hypothetical protein C05G6.3 - Caenorhabditis elegans

C/Species: Caenorhabditis elegans

C/Date: 29-Oct-1999 #sequence_revision 29-Oct-1999 #text_change 29-Oct-1999

C/Accession: T32949

R/Kemp, K.

submitted to the EMBL Data Library, February 1998

A/Description: The sequence of C. elegans cosmid C05G6.

A/Reference number: Z21252

A/Accession: T32949

A/Status: preliminary; translated from GB/EMBL/DBDJ

A/Molecule type: DNA

A/Residues: 1-341 <KEM>

A/Cross-references: EMBL:AF045635; PIDN:AAC02556.1; GSPDB:GN00022; CESP:C05G6.3

A/Experimental source: strain Bristol N2; clone C05G6

C/Genetics:

A/Gene: CESP:C05G6.3

A/Map position: 4

A/Introns: 52/2; 110/1; 151/3; 195/1; 254/3; 295/3

Query Match 3.1%; Score 13; DB 2; Length 341;
Best Local Similarity 100.0%; Pred. No. 0.00047;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 323 TTTTNTTTTTTTTT 335
|||||
Db 91 TTTTNTTTTTTTTT 103

RESULT 16

T20658

probable zinc metalloproteinase F09E8.6 - Caenorhabditis elegans

C/Species: Caenorhabditis elegans

C/Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 09-Jul-2004

C/Accession: T20658

R/Percy, C.
submitted to the EMBL Data Library, May 1996
A/Reference number: Z19307
A/Accession: T20658
A/Status: preliminary; translated from GB/EMBL/DBDJ
A/Molecule type: DNA
A/Residues: 1-517 <WIL>
A/Cross-references: UNIPROT:Q19269; EMBL:Z73896; PIDN:CAA98057.1; GSPDB:GN00022; CESP:F0
A/Experimental source: clone F09E8
C/Genetics:

A/Gene: CESP:F09E8.6

A/Map position: 4

A/Introns: 40/1; 110/3; 141/2; 219/3; 393/1

C/Superfamily: probable zinc metalloproteinase T04G9.2

Query Match 3.1%; Score 13; DB 2; Length 517;
Best Local Similarity 100.0%; Pred. No. 0.00066;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 323 TTTTNTTTTTTTTT 335
|||||
Db 334 TTTTNTTTTTTTTT 346

RESULT 17

T23739

hypothetical protein M106.2 - Caenorhabditis elegans

C/Species: Caenorhabditis elegans

C/Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 09-Jul-2004

C/Accession: T23739

R/Palmer, S.

submitted to the EMBL Data Library, December 1994

A/Reference number: Z19792

A/Accession: T23739

A/Status: preliminary; translated from GB/EMBL/DBDJ

A/Molecule type: DNA

A/Residues: 1-519 <WIL>

A/Cross-references: UNIPROT:Q09592; EMBL:Z46935; PIDN:CAA87049.1; GSPDB:GN00020; CESP:M1

A/Experimental source: clone M106

C/Genetics:

A/Gene: CESP:M106.2

A/Map position: 2

A/Introns: 47/2; 110/3; 185/2; 231/2; 270/2; 321/2; 347/3; 411/3; 452/3

C/Superfamily: Caenorhabditis elegans hypothetical protein M106.2

Query Match 3.1%; Score 13; DB 2; Length 519;
Best Local Similarity 100.0%; Pred. No. 0.00066;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 323 TTTTNTTTTTTTTT 335
|||||
Db 502 TTTTNTTTTTTTTT 514

RESULT 18

S18408

alkaline phosphatase (EC 3.1.3.1) - rat

N/Alternate names: phytase

C/Species: Rattus norvegicus (Norway rat)

C/Date: 22-Nov-1993 #sequence_revision 10-Nov-1995 #text_change 09-Jul-2004

C/Accession: S18408; S17576

R/Strom, M.; Krisinger, J.; Deluca, H.F.

Biochim. Biophys. Acta 1090, 299-304, 1991

A/Title: Isolation of a mRNA that encodes a putative intestinal alkaline phosphatase reg

A/Reference number: S18408; MUID:92062729; PMID:1954251

A/Accession: S18408

A/Status: preliminary

A/Molecule type: mRNA

A/Residues: 1-551 <STR>

A/Cross-references: UNIPROT:P51740

A/Note: the correct sequence of residues 144-160 is shown in Fig. 2; the corresponding c

R/Yang, W.J.; Matsuda, Y.; Sano, S.; Masutani, H.; Nakagawa, H.

Biochim. Biophys. Acta 1075, 75-82, 1991

A;Title: Purification and characterization of phytase from rat intestinal mucosa.
A;Reference number: S17576; MUID:91370007; PMID:1654110
A;Accession: S17576
A;Molecule type: protein
A;Residues: 20-29 <YAN>
A;Note: 10-val was also found
C;Superfamily: alkaline phosphatase
C;Keywords: phosphoric monoester hydrolase

Query Match 3.1%; Score 13; DB 2; Length 551;
Best Local Similarity 100.0%; Pred. No. 0.0007;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 323 TTTTNTTTTTTTT 335
|||||
Db 511 TTTTNTTTTTTTT 523
|||||

RESULT 19

T32661
hypothetical protein K11D12.1 - Caenorhabditis elegans
C;Species: Caenorhabditis elegans
C;Date: 29-Oct-1999 #sequence_revision 29-Oct-1999 #text_change 29-Oct-1999
R;Henkhaus, J.; Wohldmann, P.; Gillam, B.
submitted to the EMBL Data Library, December 1997
A;Description: The sequence of C. elegans cosmid K11D12.
A;Reference number: Z21207
A;Accession: T32661
A;Status: preliminary; translated from GB/EMBL/DBJ
A;Residues: 1-560 <HEN>
A;Molecule type: DNA
A;Cross-references: EMBL:AF039047; PIDN:AAB94223.1; GSPDB:GN00023; CESP:K11D12.1
A;Experimental source: strain Bristol N2; clone K11D12
C;Genetics:

A;Gene: CESP:K11D12.1

A;Map position: 5

A;Introns: 5/3; 48/3; 90/3; 127/3; 149/3; 190/1; 207/1; 233/3; 264/1; 480/1

Query Match 3.1%; Score 13; DB 2; Length 560;
Best Local Similarity 100.0%; Pred. No. 0.00071;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 323 TTTTNTTTTTTTT 335
|||||
Db 345 TTTTNTTTTTTTT 357
|||||

RESULT 20

T21175
hypothetical protein F55D12.5 - Caenorhabditis elegans
C;Species: Caenorhabditis elegans
C;Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 09-Jul-2004
C;Accession: T21175
R;McMurray, A.
submitted to the EMBL Data Library, June 1996

A;Reference number: Z19385
A;Accession: T21175
A;Status: preliminary; translated from GB/EMBL/DBJ
A;Molecule type: DNA
A;Residues: 1-651 <WIL>
A;Cross-references: UNIPROT:Q19659; EMBL:Z75538; PIDN:CAA99842.1; GSPDB:GN00019; CESP:F55D12.5
A;Experimental source: clone F20G4
R;McMurray, A.
submitted to the EMBL Data Library, June 1996
A;Reference number: Z19606
A;Accession: T22735
A;Status: preliminary; translated from GB/EMBL/DBJ
A;Molecule type: DNA
A;Residues: 1-651 <WIL>
A;Cross-references: EMBL:Z75542; PIDN:CAA99864.1; GSPDB:GN00019; CESP:F55D12.5
A;Experimental source: clone F55D12
C;Genetics:

A;Gene: CESP:F55D12.5
A;Map position: 1
A;Introns: 29/2; 54/3; 93/3; 180/2; 236/1; 264/2; 471/3; 486/3; 583/3

Query Match 3.1%; Score 13; DB 2; Length 651;
Best Local Similarity 100.0%; Pred. No. 0.0008;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 323 TTTTNTTTTTTTT 335
|||||
Db 513 TTTTNTTTTTTTT 525
|||||

RESULT 21

S51592
XynB precursor - Ruminococcus flavefaciens
C;Species: Ruminococcus flavefaciens
C;Date: 15-Jul-1995 #sequence_revision 01-Sep-1995 #text_change 09-Jul-2004
C;Accession: S51592
R;Zhang, J.X.; Martin, J.; Flint, H.J.
Mol. Gen. Genet. 245, 260-264, 1994
A;Title: Identification of non-catalytic conserved regions in xylanases encoded by the xyl
A;Reference number: S51592; MUID:95115675; PMID:7816035
A;Accession: S51592
A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-781 <ZHA>
A;Cross-references: UNIPROT:Q52753; EMBL:Z35226; NID:g516273; PIDN:CAA84537.1; PID:g5162;
F;42-239/Domain: endo-1,4-beta-xylanase homology <XYL>
F;258-401/Domain: Thermotoga xylanase A amino-terminal repeat homology <TXA>

Query Match 3.1%; Score 13; DB 2; Length 781;
Best Local Similarity 100.0%; Pred. No. 0.00094;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 323 TTTTNTTTTTTTT 335
|||||
Db 672 TTTTNTTTTTTTT 684
|||||

RESULT 22

T08611
hypothetical protein DocA - slime mold (Dictyostelium discoideum)
C;Species: Dictyostelium discoideum
C;Date: 11-Jun-1999 #sequence_revision 11-Jun-1999 #text_change 09-Jul-2004
C;Accession: T08611
R;Aubry, L.; Firtel, R.A.; Iranfar, N.
submitted to the EMBL Data Library, August 1997
A;Reference number: Z16456
A;Accession: T08611
A;Status: preliminary; translated from GB/EMBL/DBJ

A;Molecule type: mRNA
A;Residues: 1-831 <AUB>
A;Cross-references: UNIPROT:O15756; EMBL:AF020409; NID:g2425146; PID:g2425147
A;Experimental source: strain AX4
C;Genetics:
A;Gene: doca

Query Match 3.1%; Score 13; DB 2; Length 831;
Best Local Similarity 100.0%; Pred. No. 0.00099;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 323 TTTTNTTTTTTTT 335
|||||
Db 7 TTTTNTTTTTTTT 19
|||||

RESULT 23

T08606
protein phosphatase 2C-like protein Spalten - slime mold (Dictyostelium discoideum)
C;Species: Dictyostelium discoideum
C;Date: 11-Jun-1999 #sequence_revision 11-Jun-1999 #text_change 09-Jul-2004
C;Accession: T08606

R:Aubry, L.; Firtel, R.A.
submitted to the EMBL Data Library, August 1997
A:Reference number: Z16454
A:Accession: T08606
A:Status: translated from GB/EMBL/DDBJ
A:Molecule type: mRNA
A:Residues: 1-975 <AUB>
A:Cross-references: UNIPROT:O15743; EMBL:AF019985; NID:g2425120; PID:g2425121
A:Experimental source: strain AX3
C:Genetics:
A:Gene: spnA

Query Match 3.1%, Score 13; DB 2; Length 975;
Best Local Similarity 100.0%; Pred. No. 0.0012;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 322 TTTT TTTT TTTT TTTT 334
Db 560 TTTT TTTT TTTT TTTT 572

RESULT 24
S12519
glutactin - fruit fly (Drosophila melanogaster)
C:Species: Drosophila melanogaster
C:Date: 19-Mar-1997 #sequence_revision 25-Apr-1997 #text_change 09-Jul-2004
C:Accession: S12519
R:Olson, P.F.; Fessler, L.I.; Nelson, R.E.; Campbell, A.G.; Fessler, J.H.
EMBO J. 9, 1219-1227, 1990
A:Title: Glutactin, a novel Drosophila basement membrane-related glycoprotein with sequence homology to the laminin alpha 5 chain
A:Reference number: S12519; MUID:90214632; PMID:2108864
A:Accession: S12519
A:Status: preliminary
A:Molecule type: DNA
A:Residues: 1-1023 <OLS>
A:Cross-references: UNIPROT:P33438; EMBL:X53286; NID:g297084; PIDN:CAA37380.1; PID:g297084
C:Genetics:
A:Introns: 390/3

Query Match 3.1%, Score 13; DB 2; Length 1023;
Best Local Similarity 100.0%; Pred. No. 0.0012;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 323 TTTT TTTT TTTT TTTT 335
Db 603 TTTT TTTT TTTT TTTT 615

RESULT 25
JC2217
major surface glycoprotein 5 - Pneumocystis carinii
C:Species: Pneumocystis carinii
C:Date: 28-Aug-1985 #sequence_revision 07-Oct-1994 #text_change 09-Jul-2004
C:Accession: JC2217
R:Kitada, K.; Wada, M.; Nakamura, Y.
DNA Res. 1, 57-66, 1994
A:Title: Multi-gene family of major surface glycoproteins of Pneumocystis carinii: full-length cDNA clones and their expression in transgenic mice
A:Reference number: JC2217; MUID:96051981; PMID:7584029
A:Accession: JC2217
A:Molecule type: mRNA
A:Residues: 1-1076 <KIT>
A:Cross-references: UNIPROT:Q01830; DBJ:D21827; NID:g425784; PIDN:BAA04851.1; PID:d1005
C:Superfamily: Pneumocystis carinii major surface glycoprotein MSG100
C:Keywords: glycoprotein
F:245,471,574,804,837/Binding site: carbohydrate (Asn) (covalent) #status predicted

Query Match 3.1%, Score 13; DB 2; Length 1076;
Best Local Similarity 100.0%; Pred. No. 0.0012;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 323 TTTT TTTT TTTT TTTT 335
Db 951 TTTT TTTT TTTT TTTT 963

RESULT 26

JC2300
cell surface glycoprotein MSG100 - Pneumocystis carinii
C:Species: Pneumocystis carinii
C:Date: 06-Jan-1995 #sequence_revision 06-Jan-1995 #text_change 09-Jul-2004
C:Accession: JC2300
R:Wada, M.; Nakamura, Y.
DNA Res. 1, 163-168, 1994
A:Title: MSG gene cluster encoding major cell surface glycoproteins of rat Pneumocystis carinii
A:Reference number: JC2299; MUID:96051989; PMID:8535973
A:Accession: JC2300
A:Molecule type: DNA
A:Residues: 1-1083 <WAD>
A:Cross-references: UNIPROT:Q12075; GB:D17441; NID:g559718; PIDN:BAA06705.1; PID:g559718
C:Genetics:
A:Gene: MSG100
C:Superfamily: Pneumocystis carinii major surface glycoprotein MSG100
C:Keywords: glycoprotein

Query Match 3.1%, Score 13; DB 2; Length 1083;
Best Local Similarity 100.0%; Pred. No. 0.0012;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 323 TTTT TTTT TTTT TTTT 335
Db 959 TTTT TTTT TTTT TTTT 971

RESULT 27

T18257
phospholipase C - yeast (Candida albicans)
C:Species: Candida albicans
C:Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 09-Jul-2004
C:Accession: T18257
R:Bennett, D.E.; McCreary, C.E.; Coleman, D.C.
Microbiology 144, 53-72, 1998
A:Title: Genetic characterization of a phospholipase C gene from Candida albicans: presence of a conserved catalytic domain
A:Reference number: Z18844; MUID:98129081; PMID:9467900
A:Accession: T18257
A:Status: preliminary; translated from GB/EMBL/DDBJ
A:Molecule type: DNA
A:Residues: 1-1099 <BEN>
A:Cross-references: UNIPROT:O13433; EMBL:Y13975; NID:g2462981; PIDN:CAA74308.1; PID:g2462981
C:Genetics:
A:Gene: PLC1
P:566-726/Domain: 1-phosphatidylinositol-4,5-bisphosphate phosphodiesterase domain X homologue

Query Match 3.1%, Score 13; DB 2; Length 1099;
Best Local Similarity 100.0%; Pred. No. 0.0012;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 323 TTTT TTTT TTTT TTTT 335
Db 746 TTTT TTTT TTTT TTTT 758

RESULT 28

JE0120
glycoprotein A - mouse
C:Species: Mus musculus (house mouse)
C:Date: 02-Jun-1998 #sequence_revision 10-Jul-1998 #text_change 15-Jun-2001
C:Accession: JE0120
R:Haideris, C.G.; Medzhradsky, O.F.; Gigliotti, F.; Simpson-Haidaris, P.J.
DNA Res. 5, 77-85, 1998
A:Title: Molecular characterization of mouse Pneumocystis carinii surface glycoprotein A
A:Reference number: JE0120; MUID:98344138; PMID:9679195
A:Accession: JE0120
A:Molecule type: mRNA
A:Residues: 1-1282 <HAI>
A:Cross-references: GB:AF143102
C:Comment: This protein is a surface antigen of pneumonia.

C;Superfamily: Pneumocystis carinii major surface glycoprotein MSG100
C;Keywords: Glycoprotein
F;248,612,717,779,1063/Binding site: carbohydrate (Asn) (covalent) #status predicted

Query Match 3.1%; Score 13; DB 2; Length 1282;
Best Local Similarity 100.0%; Pred. No. 0.0014;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 323 TTTTNTTTTTTTT 335
| | | | | | | | | |
Db 1158 TTTTNTTTTTTT 1170

RESULT 29
T17456
cell surface protein DTFA - slime mold (Dictyostelium discoideum)
C;Species: Dictyostelium discoideum
C;Date: 09-Jun-2000 #sequence_revision 09-Jun-2000 #text_change 09-Jul-2004
C;Accession: T17456
R;Ginger, R.S.; Drury, L.; Baader, C.; Zhukovskaya, N.V.; Williams, J.G.
Development 125, 3343-3352, 1998
A;Title: A novel Dictyostelium cell surface protein important for both cell adhesion and
A;Reference number: 218798; MUID:98359946; PMID:9693138
A;Accession: T17456
A;Status: preliminary; translated from GB/EMBL/DBJ
A;Molecule type: DNA
A;Residues: 1-1402 <GIN>
A;Cross-references: UNIPROT:O96668; EMBL:AF102575; NID:g4063398; PID:g4063399; PIDN:AA88
A;Experimental source: strain AX2
C;Genetics:
A;Gene: dtfA
C;Function:
A;Description: involved in the cell adhesion and cell sorting

Query Match 3.1%; Score 13; DB 2; Length 1402;
Best Local Similarity 100.0%; Pred. No. 0.0015;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 323 TTTTNTTTTTTTT 335
| | | | | | | | | |
Db 74 TTTTNTTTTTTT 86

RESULT 30
T14075
chitinase (EC 3.2.1.14) - yellow fever mosquito
C;Species: Aedes aegypti (yellow fever mosquito)
C;Date: 20-Sep-1999 #sequence_revision 20-Sep-1999 #text_change 09-Jul-2004
C;Accession: T14075
R;de la Vega, H.; Specht, C.A.; Liu, Y.; Robbins, P.W.
Insect Mol. Biol. 7, 233-239, 1997
A;Title: Chitinases are a multi-gene family in Aedes, Anopheles, and Drosophila.
A;Reference number: 217872
A;Accession: T14075
A;Status: preliminary; translated from GB/EMBL/DBJ
A;Molecule type: DNA
A;Residues: 1-1635
A;Cross-references: UNIPROT:O17412; EMBL:AF026492; NID:g2564720; PID:g2564721; PIDN:AA88
C;Genetics:
A;Gene: CHT2
A;Introns: 462/3; 524/3; 618/1; 951/3; 1151/2
C;Keywords: glycosidase; hydrolase; polysaccharide degradation

Query Match 3.1%; Score 13; DB 2; Length 1635;
Best Local Similarity 100.0%; Pred. No. 0.0017;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 323 TTTTNTTTTTTTT 335
| | | | | | | | | |
Db 217 TTTTNTTTTTTT 229

RESULT 31
1-phosphatidylinositol 3-kinase (EC 2.7.1.137) 2 - slime mold (Dictyostelium discoideum)

S71628
sensory transduction histidine kinase doka - slime mold (Dictyostelium discoideum)
C;Species: Dictyostelium discoideum
C;Date: 27-Nov-1997 #sequence_revision 12-Dec-1997 #text_change 09-Jul-2004
C;Accession: S71628; S78068
R;Schuster, S.C.; Noegel, A.A.; Oehme, F.; Gerisch, G.; Simon, M.I.
EMBO J. 15, 3880-3889, 1996
A;Title: The hybrid histidine kinase Doka is part of the osmotic response system of Dicty
A;Reference number: S71628; MUID:96324396; PMID:8670893
A;Accession: S71628
A;Status: nucleic acid sequence not shown
A;Molecule type: DNA
A;Residues: 1-1670 <SCH>
A;Cross-references: UNIPROT:Q23901; EMBL:X96869
A;Experimental source: strain AX2; substrain 214
R;Schuster, S.C.; Noegel, A.A.; Oehme, F.; Gerisch, G.; Simon, M.I.
submitted to the EMBL Data Library, March 1996
A;Description: The hybrid histidine kinase Doka is part of the osmotic response system of
A;Reference number: S78068
A;Accession: S78068
A;Molecule type: DNA
A;Residues: 1-149, 'E', 151-219, 'TRVLKLIQSTNNWIYV', 238-1671 <SCW>
A;Cross-references: EMBL:X96869; NID:gl237201; PIDN:CAA65612.1; PID:gl237202
C;Genetics:
A;Gene: doka
C;Function:
A;Description: modulates cell response to changes in osmolarity; involved in spore format
C;Keywords: phosphoprotein; signal transduction
F;1520-1629/Domain: response regulator homology <RRH>
F;1568/Binding site: phosphate (Asp) (covalent) #status predicted

Query Match 3.1%; Score 13; DB 2; Length 1671;
Best Local Similarity 100.0%; Pred. No. 0.0018;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 323 TTTTNTTTTTTTT 335
| | | | | | | | | |
Db 399 TTTTNTTTTTTTT 411

RESULT 32
A59235
unconventional myosin heavy chain MyoM - slime mold (Dictyostelium discoideum)
C;Species: Dictyostelium discoideum
C;Date: 19-May-2000 #sequence_revision 19-May-2000 #text_change 09-Jul-2004
C;Accession: A59235
R;Geissler, H.; Schwarz, E.C.; Soldati, T.
submitted to Genbank, September 1998
A;Description: Identification of two novel and highly divergent myosins in Dictyostelium
A;Reference number: A59235
A;Accession: A59235
A;Status: preliminary; not compared with conceptual translation
A;Molecule type: mRNA
A;Residues: 1-1737 <GEI>
A;Cross-references: UNIPROT:Q9TW28; GB:AF090533; NID:g5714395; PIDN:AAD47903.1; PID:g5714
A;Experimental source: strain AX2
C;Genetics:
A;Gene: myoM
A;Map position: 6, aldB-cabA2
F;62-874/Domain: myosin motor domain homology #status atypical <MMO>

Query Match 3.1%; Score 13; DB 2; Length 1737;
Best Local Similarity 100.0%; Pred. No. 0.0018;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 323 TTTTNTTTTTTTT 335
| | | | | | | | | |
Db 1053 TTTTNTTTTTTTT 1065

RESULT 33
T18273
1-phosphatidylinositol 3-kinase (EC 2.7.1.137) 2 - slime mold (Dictyostelium discoideum)

C;Species: Dictyostelium discoideum
 C;Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 09-Jul-2004
 C;Accession: T18273
 R;Zhou, K.; Takegawa, K.; Emr, S.D.; Firtel, R.A.
 Mol. Cell. Biol. 15, 5645-5656, 1995
 A;Title: A phosphatidylinositol (PI) kinase gene family in Dictyostelium discoideum: Bic
 A;Reference number: Z06411
 A;Accession: T18273
 A;Status: preliminary; translated from GB/EMBL/DBJ
 A;Molecule type: mRNA
 A;Residues: 1-1858 <ZHO>
 A;Cross-references: UNIPROT:P54674; EMBL:U23477; NID:G733521; PID:G733522; PIDN:AAA85722
 C;Genetics:
 A;Gene: PIK2
 C;Keywords: phosphotransferase

Query Match 3.1%; Score 13; DB 2; Length 1858;
 Best Local Similarity 100.0%; Pred. No. 0.0019;
 Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 323 TTTT TTTT TTTT TTTT 335
 |||||
 DB 715 TTTT TTTT TTTT TTTT 727

RESULT 34
 S05358
 hypothetical protein (clone AAC1) - slime mold (Dictyostelium discoideum) (fragment)
 C;Species: Dictyostelium discoideum
 C;Date: 31-Mar-1990 #sequence_revision 31-Mar-1990 #text_change 09-Jul-2004
 C;Accession: S05358
 R;Shaw, D.R.; Richter, H.; Giorda, R.; Omachi, T.; Ennis, H.L.
 Mol. Gen. Genet. 218, 453-459, 1989
 A;Title: Nucleotide sequences of Dictyostelium discoideum developmentally regulated cDNA
 A;Reference number: S05355; MUID:90066348; PMID:2511421
 A;Accession: S05358
 A;Molecule type: mRNA
 A;Residues: 1-183 <SHA>
 A;Cross-references: UNIPROT:P14195; EMBL:X16525; NID:G7172; PIDN:CAA34532.1; PID:G930011

Query Match 2.8%; Score 12; DB 2; Length 183;
 Best Local Similarity 100.0%; Pred. No. 0.0024;
 Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 323 TTTT TTTT TTTT TTTT 334
 |||||
 DB 34 TTTT TTTT TTTT TTTT 45

RESULT 35
 T29557
 hypothetical protein C16D9.1 - Caenorhabditis elegans
 C;Species: Caenorhabditis elegans
 C;Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 09-Jul-2004
 C;Accession: T29557
 R;Gattung, S.; Le, T.T.
 submitted to the EMBL Data Library, July 1996
 A;Description: The sequence of C. elegans cosmid C16D9.
 A;Reference number: Z20640
 A;Accession: T29557
 A;Status: preliminary; translated from GB/EMBL/DBJ
 A;Molecule type: DNA
 A;Residues: 1-342 <GAT>
 A;Cross-references: UNIPROT:Q22902; EMBL:U64858; PIDN:AAB18288.1; GSPDB:GNO00023; CESP:C16D9
 A;Experimental source: strain Bristol N2; clone C16D9
 C;Genetics:
 A;Gene: CESP:C16D9.1
 A;Map position: 5
 A;Introns: 59/2; 316/3

Query Match 2.8%; Score 12; DB 2; Length 342;
 Best Local Similarity 100.0%; Pred. No. 0.004;
 Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 322 PTTT TTTT TTTT TTTT 333
 |||||
 DB 275 PTTT TTTT TTTT TTTT 286

RESULT 36

T31631
 hypothetical protein Y57A10A.i - Caenorhabditis elegans
 C;Species: Caenorhabditis elegans
 C;Date: 29-Oct-1999 #sequence_revision 29-Oct-1999 #text_change 09-Jul-2004
 C;Accession: T31631
 R;Smye, R.
 submitted to the EMBL Data Library, September 1999
 A;Reference number: Z21048
 A;Accession: T31631
 A;Status: preliminary; translated from GB/EMBL/DBJ
 A;Molecule type: DNA
 A;Residues: 1-458 <WIL>
 A;Cross-references: UNIPROT:Q9NA83; EMBL:AL117195; NID:e1549729; PIDN:CAB55014.1; CESP:Y57A10A
 A;Experimental source: clone Y57A10A
 C;Genetics:
 A;Gene: CESP:Y57A10A.i
 A;Introns: 8/3; 54/3; 112/3; 151/1

Query Match 2.8%; Score 12; DB 2; Length 458;
 Best Local Similarity 100.0%; Pred. No. 0.0052;
 Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 323 TTTT TTTT TTTT TTTT 334
 |||||
 DB 134 TTTT TTTT TTTT TTTT 145

RESULT 37

A54843
 nemo, form I - fruit fly (Drosophila melanogaster)
 C;Species: Drosophila melanogaster
 C;Date: 03-Oct-1995 #sequence_revision 03-Oct-1995 #text_change 09-Jul-2004
 C;Accession: A54843
 R;Choi, K.W.; Benzer, S.
 Cell 78, 125-136, 1994
 A;Title: Rotation of photoreceptor clusters in the developing Drosophila eye requires the
 A;Reference number: A54843; MUID:94306509; PMID:8033204
 A;Accession: A54843
 A;Status: preliminary
 A;Molecule type: mRNA
 A;Residues: 1-477 <CHO>
 A;Cross-references: UNIPROT:Q23993; GB:U12009; NID:G515669; PIDN:AAA21124.1; PID:G532558
 C;Genetics:

Query Match 2.8%; Score 12; DB 2; Length 477;
 Best Local Similarity 100.0%; Pred. No. 0.0053;
 Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 323 TTTT TTTT TTTT TTTT 334
 |||||
 DB 421 TTTT TTTT TTTT TTTT 432

RESULT 38

S33640
 homeotic protein smox-2, engrailed-like - fluke (Schistosoma mansoni)
 C;Species: Schistosoma mansoni
 C;Date: 20-Feb-1995 #sequence_revision 20-Feb-1995 #text_change 16-Aug-2004
 C;Accession: S33640; S27841
 R;Webster, P.U.; Mansour, T.E.

Qy 323 TTTTTTTTTT 334
|||||
Db 513 TTTTTTTTTT 524

RESULT 41
T19939
hypotheical protein C44H4.3 - Caenorhabditis elegans
C:Species: Caenorhabditis elegans
C:Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 09-Jul-2004
C:Accession: T19939
R:Smyle, R.
submitted to the EMBL Data Library, August 1996
A:Reference number: Z19200
A:Accession: T19939
A:Status: preliminary; translated from GB/EMBL/DBJ
A:Molecule type: DNA
A:Residues: 1-680 <WIL>
A:Cross-references: UNIPROT:Q93374; EMBL:Z79598; PIDN:CA801865.1; GSPDB:GN000028; CESP:C44H4.3
A:Experimental source: clone C44H4
C:Genetics:
A:Gene: CESP:C44H4.3
A:Map position: X
A:Introns: 26/3; 74/3; 122/3; 216/3; 364/3; 589/3

Query Match 2.8%; Score 12; DB 2; Length 680;
Best Local Similarity 100.0%; Pred. No. 0.0072;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 323 TTTTTTTTTT 334
|||||
Db 463 TTTTTTTTTT 474

RESULT 42
T23454
hypotheical protein K08E3.6 - Caenorhabditis elegans
C:Species: Caenorhabditis elegans
C:Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 09-Jul-2004
C:Accession: T23454
R:McMurray, A.
submitted to the EMBL Data Library, November 1996
A:Reference number: Z19743
A:Accession: T23454
A:Status: preliminary; translated from GB/EMBL/DBJ
A:Molecule type: DNA
A:Residues: 1-681 <WIL>
A:Cross-references: UNIPROT:Q9XUS9; EMBL:Z81568; PIDN:CA804593.1; GSPDB:GN000021; CESP:K08E3.6
A:Experimental source: clone K08E3
C:Genetics:
A:Gene: CESP:K08E3.6
A:Map position: 3
A:Introns: 36/1; 73/2; 237/3; 361/3; 612/3

Query Match 2.8%; Score 12; DB 2; Length 681;
Best Local Similarity 100.0%; Pred. No. 0.0072;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 325 TTTTTTTTTT 336
|||||
Db 259 TTTTTTTTTT 270

RESULT 43
A54796
regulatory protein CRAC - slime mold (Dictyostelium discoideum)
C:Species: Dictyostelium discoideum
C:Date: 28-Oct-1994 #sequence_revision 28-Oct-1994 #text_change 09-Jul-2004
C:Accession: A54796
R:Insaall, R.; Kuspa, A.; Lilly, P.J.; Shaulsky, G.; Levin, L.R.; Loomis, W.F.; Devreotes
J. Cell Biol. 126, 1537-1545, 1994
A:Title: CRAC, a cytosolic protein containing a pleckstrin homology domain, is required

A;Reference number: A54796; MUID:94375528; PMID:8089184
A;Accession: A54796
A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-698 <INS>
A;Cross-references: UNIPROT:P35401; GB:U06228; NID:G641960; PIDN:AAA61782.1; PID:G456398
C;Genetics:
A;Introns: 11/3; 153/1
C;Superfamily: Dictyostelium regulatory protein CRAC

Query Match 2.8%; Score 12; DB 2; Length 698;
Best Local Similarity 100.0%; Pred. No. 0.0074;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 323 TTTTNTTTTTTTT 334
|||||

Db 352 TTTTNTTTTTTTT 363
|||||

RESULT 44

A36910

xylanase, beta(1,3-1,4)-glucanase - Ruminococcus flavefaciens

C;Species: Ruminococcus flavefaciens

C;Date: 07-Apr-1994 #sequence_revision 18-Nov-1994 #text_change 09-Jul-2004

C;Accession: A36910

R;Flint, H.J.; Martin, J.; McPherson, C.A.; Daniel, A.S.; Zhang, J.X.

J. Bacteriol. 175, 2943-2951, 1993

A;Title: A bifunctional enzyme, with separate xylanase and beta(1,3-1,4)-glucanase domains

A;Reference number: A36910; MUID:93259938; PMID:8491715

A;Accession: A36910

A;Status: preliminary

A;Molecule type: DNA

A;Residues: 1-802 <FLI>

A;Cross-references: UNIPROT:Q9S310; GB:SG1204; NID:G385910; PIDN:AAAB26620.1; PID:G385910

A;Note: sequence extracted from NCBI backbone (NCBIN:U131871, NCBIP:131872)

F;42-239/Domain: endo-1,4-beta-xylanase homology <XLY>

F;259-401/Domain: Thermotoga xylanase A amino-terminal repeat homology <TXA>

Query Match 2.8%; Score 12; DB 2; Length 802;
Best Local Similarity 100.0%; Pred. No. 0.0083;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 323 TTTTNTTTTTTTT 334
|||||

Db 532 TTTTNTTTTTTTT 543
|||||

RESULT 45

T29634

hypothetical protein C12D12.1 - Caenorhabditis elegans

C;Species: Caenorhabditis elegans

C;Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 09-Jul-2004

C;Accession: T29634

R;Nhan, M.; Hawkins, J.

submitted to the EMBL Data Library, March 1996

A;Description: The sequence of C. elegans cosmid C12D12.

A;Reference number: T29634

A;Accession: T29634

A;Status: preliminary; translated from GB/EMBL/DBJ.

A;Molecule type: DNA

A;Residues: 1-825 <NHA>

A;Cross-references: UNIPROT:Q17921; EMBL:U51998; PIDN:AAA96080.1; GSPDB:GN00028; CESP:CH

A;Experimental source: strain Bristol N2; clone C12D12

C;Genetics:

A;Gene: CESP:C12D12.1

A;Map position: X

A;Introns: 48/1; 86/3; 137/1; 172/3; 224/3; 253/1; 287/3; 328/2; 454/1; 487/3; 692/1

C;Superfamily: Epstein-Barr virus membrane antigen gp350

Query Match 2.8%; Score 12; DB 2; Length 825;
Best Local Similarity 100.0%; Pred. No. 0.0085;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 323 TTTTNTTTTTTTT 334
|||||

Db 748 TTTTNTTTTTTTT 759
|||||

RESULT 46

T30546

major surface glycoprotein - Pneumocystis carinii (fragment)

C;Species: Pneumocystis carinii

C;Date: 22-Oct-1999 #sequence_revision 22-Oct-1999 #text_change 15-Jun-2001

C;Accession: T30546

R;Mei, Q.; Turner, R.E.; Sorial, V.; Klivington, D.; Angus, C.W.; Kovacs, J.A.

Infect. Immun. 66, 4268-4273, 1998

A;Title: Characterization of major surface glycoprotein genes of human Pneumocystis carinii

A;Reference number: Z17905; MUID:98380374; PMID:9712777

A;Accession: T30546

A;Status: preliminary; translated from GB/EMBL/DBJ

A;Molecule type: DNA

A;Residues: 1-1002 <MEI>

A;Cross-references: EMBL:AF038556; NID:G3560524; PID:G3560526; PIDN:AAAC34981.1

A;Experimental source: f.sp. hominis

C;Genetics:

A;Gene: msg3

C;Superfamily: Pneumocystis carinii major surface glycoprotein MSG100

Query Match 2.8%; Score 12; DB 2; Length 1002;
Best Local Similarity 100.0%; Pred. No. 0.01;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 325 TTTTNTTTTTTTT 336
|||||

Db 902 TTTTNTTTTTTTT 913
|||||

RESULT 47

S18253

laminin alpha-1 chain precursor - fruit fly (Drosophila melanogaster)

C;Species: Drosophila melanogaster

C;Date: 16-Sep-1992 #sequence_revision 24-Jul-1997 #text_change 09-Jul-2004

C;Accession: S28399; S18253

R;Kusche-Gulberg, M.; Garrison, K.; Mackrell, A.J.; Fessler, J.H.

EMBO J. 11, 4519-4527, 1992

A;Title: Laminin A chain: expression during Drosophila development and genomic sequence.

A;Reference number: S28399; MUID:93049203; PMID:1425586

A;Accession: S28399

A;Status: preliminary

A;Molecule type: nucleic acid

A;Residues: 1-3712 <KUS>

A;Cross-references: UNIPROT:Q00174; GB:M96388; NID:G157799; PIDN:AAA28662.1; PID:G157800

R;Garrison, K.; Mackrell, A.J.; Fessler, J.H.

J. Biol. Chem. 266, 22899-22904, 1991

A;Title: Drosophila laminin A chain sequence, interspecies comparison, and domain structure

A;Reference number: S18253; MUID:92078147; PMID:1744083

A;Accession: S18253

A;Molecule type: mRNA

A;Residues: 1762-3712 <GAR>

A;Cross-references: EMBL:M75882; NID:G157797; PIDN:AAA28661.1; PID:G157798

C;Genetics:

A;Gene: FlyBase:Lana

A;Cross-references: FlyBase:FBgn0002526

C;Superfamily: laminin alpha-1 chain; laminin G repeat homology; laminin-type EGF-like homology <LE2>

C;Keywords: basement membrane; cell binding; coiled coil; disulfide bond; extracellular

F;273-330/Domain: laminin-type EGF-like homology <LEG>

F;333-400/Domain: laminin-type EGF-like homology <LE02>

F;541-584/Domain: laminin-type EGF-like homology <LEG1>

F;1776-2115/Domain: III <DOM3>

F;1776-1806/Domain: laminin-type EGF-like homology #status atypical <LE1>

F;1809-1856/Domain: laminin-type EGF-like homology <LE2>

F;1859-1914/Domain: laminin-type EGF-like homology <LE3>

F;1917-1967/Domain: laminin-type EGF-like homology <LE4>

F;1970-2014/Domain: laminin-type EGF-like homology <LE5>

F;2017-2061/Domain: laminin-type EGF-like homology <LE6>

F;2064-2109/Domain: laminin-type EGF-like homology <LE7>

[illegible]

Lancet 357, 1225-1240, 2001
A;Title: Whole genome sequencing of methicillin-resistant *Staphylococcus aureus*.
A;Reference number: A89758; MUID:21311952; PMID:11418146
A;Accession: C90029
A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-166 <KUR>
A;Cross-references: UNIPROT:Q9RWR9; GB:BA000018; PID:gl3702104; PIDN:BA043396.1; GSPDB:G000000000
A;Experimental source: strain N315
C;Genetics:
A;Gene: SA2097

Query Match 2.6%; Score 11; DB 2; Length 166;
Best Local Similarity 100.0%; Pred. No. 0.019;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 323 TTTT TTTT TTTT 333
Db 44 TTTT TTTT TTTT 54

RESULT 52
T46896
merozoite surface antigen 2 [imported] - malaria parasite (Plasmodium falciparum) (fragment)
C;Species: Plasmodium falciparum
C;Date: 17-Mar-2000 #sequence_revision 17-Mar-2000 #text_change 09-Jul-2004
C;Accession: T46896
R;Prescott, N.; Stowers, A.W.; Cheng, Q.; Bobogare, A.; Rzepczyk, C.M.; Saul, A.
Mol. Biochem. Parasitol. 63, 203-212, 1994
A;Title: Plasmodium falciparum genetic diversity can be characterized using the polymorphic region of the merozoite surface antigen 2 (MSP-2) gene.
A;Reference number: 224128; MUID:94277144; PMID:8008018
A;Accession: T46896
A;Status: preliminary; translated from GB/EMBL/DBJ
A;Molecule type: DNA
A;Residues: 1-208 <PRE>
A;Cross-references: UNIPROT:Q25949; EMBL:L15048; NID:g438839; PIDN:AAC37195.1; PID:g438839
C;Genetics:
A;Gene: MSA-2
A;Map position: 2
C;Superfamily: Epstein-Barr virus nuclear antigen

Query Match 2.6%; Score 11; DB 2; Length 208;
Best Local Similarity 100.0%; Pred. No. 0.023;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 323 TTTT TTTT TTTT 333
Db 99 TTTT TTTT TTTT 109

RESULT 53
T26560
hypothetical protein Y24F12A.c - *Caenorhabditis elegans*
C;Species: *Caenorhabditis elegans*
C;Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 08-Sep-2000
C;Accession: T26560
R;Lennard, N.
submitted to the EMBL Data Library, September 1999
A;Reference number: Z20233
A;Accession: T26560
A;Status: preliminary; translated from GB/EMBL/DBJ
A;Molecule type: DNA
A;Residues: 1-234 <WIL>
A;Cross-references: EMBL:AL110480; NID:e1542182; PIDN:CAB54379.1; CESP:Y24F12A.c
A;Experimental source: clone Y24F12A
C;Genetics:
A;Gene: CESP:Y24F12A.c
A;Introns: 12/2; 55/1; 200/1
C;Superfamily: *Caenorhabditis elegans* hypothetical protein Y9D1A.2

Query Match 2.6%; Score 11; DB 2; Length 234;
Best Local Similarity 100.0%; Pred. No. 0.025;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 323 TTTT TTTT TTTT 333
Db 156 TTTT TTTT TTTT 166

RESULT 56
JCT7783
RAD 23B protein - channel catfish
C;Species: *Ictalurus punctatus* (channel catfish)
C;Date: 02-Apr-2002 #sequence_revision 02-Apr-2002 #text_change 09-Jul-2004
C;Accession: JCT7783

QY 323 TTTT TTTT TTTT 333
Db 175 TTTT TTTT TTTT 185

RESULT 54
S01360
salivary glue protein sgs-3 precursor - fruit fly (*Drosophila yakuba*)
C;Species: *Drosophila yakuba*
C;Date: 30-Sep-1989 #sequence_revision 30-Sep-1989 #text_change 09-Jul-2004
C;Accession: S01360; C29988
R;Martin, C.H.; Mayeda, C.A.; Meyerowitz, E.M.
J. Mol. Biol. 201, 273-287, 1988
A;Title: Evolution and expression of the Sgs-3 glue gene of *Drosophila*.
A;Reference number: S01358; MUID:8832966; PMID:3138416
A;Accession: S01360
A;Status: not compared with conceptual translation
A;Molecule type: DNA
A;Residues: 1-263 <MAR>
A;Cross-references: UNIPROT:P13728
C;Genetics:
A;Gene: Sgs-3
A;Cross-references: FlyBase:FBgn0013172
C;Superfamily: salivary glue protein
F;2-23/Domain: signal sequence #status predicted <SIG>
F;24-263/Product: salivary glue protein sgs-3 #status predicted <MAT>

Query Match 2.6%; Score 11; DB 2; Length 263;
Best Local Similarity 100.0%; Pred. No. 0.028;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 322 PTTT TTTT TTTT 332
Db 96 PTTT TTTT TTTT 106

RESULT 55
T29596
hypothetical protein C04G6.2 - *Caenorhabditis elegans*
C;Species: *Caenorhabditis elegans*
C;Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 15-Oct-1999
C;Accession: T29596
R;Anderson, K.; Chisoe, S.
submitted to the EMBL Data Library, April 1996
A;Description: The sequence of C. elegans cosmid C04G6.
A;Reference number: Z20648
A;Accession: T29596
A;Status: preliminary; translated from GB/EMBL/DBJ
A;Molecule type: DNA
A;Residues: 1-373 <AND>
A;Cross-references: EMBL:U55854; PIDN:AAA98013.1; GSPDB:GN00020; CESP:C04G6.2
A;Experimental source: strain Bristol N2; clone C04G6
C;Genetics:
A;Gene: CESP:C04G6.2
A;Map position: 2
A;Introns: 33/3; 85/3; 143/1; 179/1; 226/2; 263/1; 310/2

Query Match 2.6%; Score 11; DB 2; Length 373;
Best Local Similarity 100.0%; Pred. No. 0.037;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 323 TTTT TTTT TTTT 333
Db 156 TTTT TTTT TTTT 166

RESULT 56
JCT7783
RAD 23B protein - channel catfish
C;Species: *Ictalurus punctatus* (channel catfish)
C;Date: 02-Apr-2002 #sequence_revision 02-Apr-2002 #text_change 09-Jul-2004
C;Accession: JCT7783

R; Liu, Z.; Li, P.; Kocabas, A.; Karsi, A.; Ju, J. Z. Biochem. Biophys. Res. Commun. 289, 317-324, 2001
A; Title: Microsatellite-containing genes from the channel catfish brain: Evidence of tri
A; Reference number: JC7783
A; Contents: Brain
A; Accession: JC7783
A; Molecule type: mRNA
A; Residues: 1-385 <LIU>
A; Cross-references: UNIPROT:Q7LZR8
C; Comment: This protein with a polythreonine tract, has importance in the nucleotide exc
C; Genetics:
A; Gene: rad23b
A; Introns: 76/73

Query Match 2.6%; Score 11; DB 2; Length 385;
Best Local Similarity 100.0%; Pred. No. 0.038;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 323 TTTT TTTT TTTT 333
|||||
Db 114 TTTT TTTT TTTT 124

RESULT 57
T32467
hypothetical protein F52G3.5 - Caenorhabditis elegans
C; Species: Caenorhabditis elegans
C; Date: 29-Oct-1999 #sequence_revision 29-Oct-1999 #text_change 09-Jul-2004
C; Accession: T32467
R; Blanchard, M.; Gattung, S.; Sansone, J.
submitted to the EMBL Data Library, September 1997
A; Description: The sequence of C. elegans cosmid F52G3.
A; Reference number: Z21173
A; Accession: T32467
A; Status: preliminary; translated from GB/EMBL/DBJ
A; Molecule type: DNA
A; Residues: 1-415 <BLA>
A; Cross-references: UNIPROT:Q9GZH9; EMBL:AF026212; PIDN:AAB71300.1; GSPDB:GN00028; CESP
A; Experimental source: strain Bristol N2; clone F52G3
C; Genetics:
A; Gene: CESP:F52G3.5
A; Map position: X
A; Introns: 31/1; 49/1; 104/1; 117/1; 220/1; 241/2; 307/1; 370/3

Query Match 2.6%; Score 11; DB 2; Length 415;
Best Local Similarity 100.0%; Pred. No. 0.041;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 323 TTTT TTTT TTTT 333
|||||
Db 203 TTTT TTTT TTTT 213

RESULT 58
S58868
G protein-coupled receptor GCRI - migratory locust
C; Species: Locusta migratoria (migratory locust)
C; Date: 15-Feb-1996 #sequence_revision 01-Mar-1996 #text_change 09-Jul-2004
C; Accession: S58868; S58869
R; Vanden Broeck, J.; Vulsteke, V.; Huybrechts, R.; De Loof, A.
J. Neurochem. 64, 2387-2395, 1995
A; Title: Characterization of a cloned locust tyramine receptor cDNA by functional expres
A; Reference number: S58868; MUID:95279966; PMID:7760020
A; Accession: S58868
A; Status: preliminary
A; Molecule type: mRNA
A; Residues: 1-484 <VAN>
A; Cross-references: UNIPROT:Q25321; EMBL:X69520; NID:g871404; PIDN:CAA49268.1; PID:g8714
A; Accession: S58869
A; Status: preliminary; nucleic acid sequence not shown; translation not shown
A; Molecule type: mRNA
A; Residues: 1-307, 'D', 309-338, 'K', 340-484 <VA2>
A; Cross-references: EMBL:X69521; NID:g871406; PIDN:CAA49269.1; PID:g871407

A; Note: the nucleotide sequence was submitted to the EMBL Data Library, November 1992
C; Superfamily: octopamine receptor type I
C; Keywords: G protein-coupled receptor

Query Match 2.6%; Score 11; DB 2; Length 484;
Best Local Similarity 100.0%; Pred. No. 0.047;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 323 TTTT TTTT TTTT 333
|||||
Db 350 TTTT TTTT TTTT 360

RESULT 59
A35596
nuclear pore glycoprotein p62 - rat
C; Species: Rattus norvegicus (Norway rat)
C; Date: 09-Nov-1990 #sequence_revision 09-Nov-1990 #text_change 09-Jul-2004
C; Accession: A35596; A31762; I55336; S11666
R; Starr, C.M.; D'Onofrio, M.; Park, M.K.; Hanover, J.A.
J. Cell Biol. 110, 1861-1871, 1990
A; Title: Primary sequence and heterologous expression of nuclear pore glycoprotein p62.
A; Reference number: A35596; MUID:90277705; PMID:2190987
A; Accession: A35596
A; Status: preliminary
A; Molecule type: mRNA
A; Residues: 1-525 <STA>
A; Cross-references: UNIPROT:P17955; GB:X52583; NID:g57640; PIDN:CAA36813.1; PID:g57641
R; D'Onofrio, M.; Starr, C.M.; Park, M.K.; Holt, G.D.; Haltiwanger, R.S.; Hart, G.W.; Han
Proc. Natl. Acad. Sci. U.S.A. 85, 9595-9599, 1988
A; Title: Partial cDNA sequence encoding a nuclear pore protein modified by O-linked N-ac
A; Reference number: A31762; MUID:89071743; PMID:3200844
A; Accession: A31762
A; Molecule type: mRNA
A; Residues: 370, 'FR', 373-525 <DON>
A; Cross-references: GB:J04143; NID:96233564; PIDN:AAA60741.1; PID:96233565
A; Experimental source: hepatic
R; D'Onofrio, M.; Lee, M.D.; Starr, C.M.; Miller, M.; Hanover, J.A.
J. Biol. Chem. 266, 11980-11985, 1991
A; Title: The gene encoding rat nuclear pore glycoprotein p62 is intronless.
A; Reference number: I55336; MUID:91268076; PMID:2050692
A; Accession: I55336
A; Status: translated from GB/EMBL/DBJ
A; Molecule type: DNA
A; Residues: 1-525 <RES>
A; Cross-references: GB:M62992; NID:g205953; PIDN:AAA41789.1; PID:g205954
A; Experimental source: hepatic
C; Genetics:
A; Introns: #status absent
C; Keywords: coiled coil; glycoprotein

Query Match 2.6%; Score 11; DB 2; Length 525;
Best Local Similarity 100.0%; Pred. No. 0.05;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 323 TTTT TTTT TTTT 333
|||||
Db 274 TTTT TTTT TTTT 284

RESULT 60
A56573
nuclear pore complex glycoprotein p62 - mouse
C; Species: Mus musculus (house mouse)
C; Date: 21-Jul-1995 #sequence_revision 28-Jul-1995 #text_change 09-Jul-2004
C; Accession: A56573
R; Cordes, V.; Waizenegger, I.; Krohne, G.
Eur. J. Cell Biol. 55, 31-47, 1991
A; Title: Nuclear pore complex glycoprotein p62 of Xenopus laevis and mouse: cDNA cloning
A; Reference number: A56573; MUID:92007945; PMID:1915419
A; Accession: A56573
A; Status: preliminary
A; Molecule type: mRNA

A;Residues: 1-526 <COR>
A;Cross-references: UNIPROT:Q63850; GB:S59342; NID:G236260; PIDN:AB19953.1; PID:G236261
A;Note: sequence extracted from NCBI backbone (NCBIN:59342, NCBI:59343)
C;Comment: The amino end of this protein contains O-linked N-acetylglucosamine additions
C;Keywords: glycoprotein; nuclear membrane; peripheral membrane protein

Query Match 2.6%; Score 11; DB 2; Length 526;
Best Local Similarity 100.0%; Pred. No. 0.05;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 323 TTTT TTTT TTTT 333
| | | | |
Db 274 TTTT TTTT TTTT 284

RESULT 61
A98199
translocated intimin receptor Tir [imported] - Escherichia coli (strain O157:H7, substrate
C;Species: Escherichia coli
C;Date: 18-Jul-2001 #sequence_revision 18-Jul-2001 #text_change 09-Jul-2004
C;Accession: A98199
R;Hayaishi, T.; Makino, K.; Kurokawa, K.; Ishii, K.; Yokoyama, K.; Han, C.G.
gaawara, N.; Yasunaga, T.; Kuhara, S.; Shiba, T.; Hattori, M.; Shinagawa, H.
DNA Res. 8, 11-22, 2001
A;Title: Complete genome sequence of enterohemorrhagic Escherichia coli O157:H7 and gen
A;Reference number: A9829; MUID:21156231; PMID:11258796
A;Accession: A98199
A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-558 <HAY>
A;Cross-references: UNIPROT:Q9R396; GB:BA000007; PIDN:BA37984.1; PID:gl3364036; GSPDB:G
A;Experimental source: strain O157:H7, substrain RMD 0509952
C;Genetics:
A;Gene: EceA561

Query Match 2.6%; Score 11; DB 2; Length 558;
Best Local Similarity 100.0%; Pred. No. 0.053;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 323 TTTT TTTT TTTT 333
| | | | |
Db 393 TTTT TTTT TTTT 403

RESULT 62
E86045
probable translocated intimin receptor protein tir [imported] - Escherichia coli (strain
C;Species: Escherichia coli
C;Date: 16-Feb-2001 #sequence_revision 16-Feb-2001 #text_change 09-Jul-2004
C;Accession: E86045
R;Perna, N.T.; Plunkett III, G.; Burland, V.; Mau, B.; Glasner, J.D.; Rose, D.J.; Mayhew
iller, L.; Grotbeck, E.J.; Davis, N.W.; Lim, A.; Dimalanta, E.; Potamousis, K.; Apodaca,
Nature 409, 529-533, 2001
A;Title: Genome sequence of enterohemorrhagic Escherichia coli O157:H7.
A;Reference number: A85480; MUID:21074935; PMID:11206551
A;Accession: E86045
A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-558 <STO>
A;Cross-references: UNIPROT:Q9R396; GB:AE005174; NID:gl2518449; PIDN:AAG58825.1; GSPDB:G
A;Experimental source: strain O157:H7, substrain EDL933
C;Genetics:
A;Gene: tir

Query Match 2.6%; Score 11; DB 2; Length 558;
Best Local Similarity 100.0%; Pred. No. 0.053;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 323 TTTT TTTT TTTT 333
| | | | |
Db 393 TTTT TTTT TTTT 403

RESULT 63

S47277
gp88 protein - murine cytomegalovirus
C;Species: murine cytomegalovirus, murine herpesvirus 1
C;Date: 06-Jan-1995 #sequence_revision 06-Jan-1995 #text_change 09-Jul-2004
C;Accession: S47277
R;Thaiele, R.; Lucin, P.; Schneider, K.; Koszinowski, U.
submitted to the EMBL Data Library, February 1994
A;Reference number: S47277
A;Accession: S47277
A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-569 <THA>
A;Cross-references: UNIPROT:Q83183; EMBL:X77798; NID:G535195; PIDN:CAA54825.1; PID:G535195
C;Superfamily: murine cytomegalovirus gp88 protein

Query Match 2.6%; Score 11; DB 2; Length 569;
Best Local Similarity 100.0%; Pred. No. 0.053;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 323 TTTT TTTT TTTT 333
| | | | |
Db 473 TTTT TTTT TTTT 483

RESULT 64

T24505
hypothetical protein T05C12.4 - Caenorhabditis elegans
C;Species: Caenorhabditis elegans
C;Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 09-Jul-2004
C;Accession: T24505
R;Burton, J.
submitted to the EMBL Data Library, October 1995
A;Reference number: Z19901
A;Accession: T24505
A;Status: preliminary; translated from GB/EMBL/DBJ
A;Molecule type: DNA
A;Residues: 1-649 <WIL>
A;Cross-references: UNIPROT:Q22225; EMBL:Z66500; PIDN:CAA91305.1; GSPDB:GN00020; CESP:T05
A;Experimental source: clone T05C12
C;Genetics:
A;Gene: CESP:T05C12.4
A;Map position: 2
A;Introns: 28/3; 48/3; 103/3; 156/3; 192/3; 249/3; 408/3; 495/3; 623/3
C;Superfamily: Caenorhabditis elegans hypothetical protein T05C12.4

Query Match 2.6%; Score 11; DB 2; Length 649;
Best Local Similarity 100.0%; Pred. No. 0.06;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 326 TTTT TTTT TTTT 336
| | | | |
Db 355 TTTT TTTT TTTT 365

RESULT 65

A45155
mucin FIM-C.1 - African clawed frog (fragment)
C;Species: Xenopus laevis (African clawed frog)
C;Date: 26-May-1994 #sequence_revision 26-May-1994 #text_change 09-Jul-2004
C;Accession: A45155
R;Hauser, F.; Hoffmann, W.
J. Biol. Chem. 267, 24620-24624, 1992
A;Title: P-domains as shuffled cysteine-rich modules in integumentary mucin C.1 (FIM-C.1)
A;Reference number: A45155; MUID:93077556; PMID:1447205
A;Accession: A45155
A;Status: preliminary
A;Molecule type: mRNA
A;Residues: 1-662 <HAU>
A;Cross-references: UNIPROT:Q05049; GB:L02115; NID:G214147; PIDN:AAA74725.1; PID:G951460
F;162-202/Domain: trefoil homology <TRF1>
F;307-347/Domain: trefoil homology <TRF2>
F;354-394/Domain: trefoil homology <TRF3>

F;526-566/Domain: trefoil homology <TRF4>
F;573-613/Domain: trefoil homology <TRF5>
F;621-661/Domain: trefoil homology <TRF6>

Query Match 2.6%; Score 11; DB 2; Length 662;
Best Local Similarity 100.0%; Pred. No. 0.061;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 322 PTTTTTTTTT 332
|||||
Db 433 PTTTTTTTTT 443

RESULT 66

T25937
hypothetical protein ZC13.3 - Caenorhabditis elegans
C;Species: Caenorhabditis elegans
C;Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 09-Jul-2004
C;Accession: T25937

R;Bradshaw, H.
submitted to the EMBL Data Library, August 1996
A;Description: The sequence of C. elegans cosmid ZC13.
A;Reference number: Z20113

A;Accession: T25937
A;Status: preliminary; translated from GB/EMBL/DBJ
A;Molecule type: DNA
A;Residues: 1-732 <BRA>
A;Cross-references: UNIPROT:Q95Q40; EMBL:U67953; PIDN:AAB07581.1; GSPDB:GN00028; CESP:ZC13
A;Experimental source: strain Bristol N2; clone ZC13
C;Genetics:

A;Gene: CESP:ZC13.3

A;Map position: X

A;Introns: 19/3; 52/2; 86/1; 169/1; 301/1; 365/1; 401/3; 506/2; 528/2; 553/1; 639/1; 683/1

Query Match 2.6%; Score 11; DB 2; Length 732;
Best Local Similarity 100.0%; Pred. No. 0.066;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 323 TTTTTTTTTT 333
|||||
Db 214 TTTTTTTTTT 224

RESULT 67

T22808
hypothetical protein F56H9.1 - Caenorhabditis elegans
C;Species: Caenorhabditis elegans
C;Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 09-Jul-2004
C;Accession: T22808

R;Burton, J.

submitted to the EMBL Data Library, June 1996

A;Reference number: Z19618

A;Accession: T22808

A;Status: preliminary; translated from GB/EMBL/DBJ

A;Molecule type: DNA

A;Residues: 1-770 <WIL>

A;Cross-references: UNIPROT:Q20908; EMBL:Z74473; PIDN:CAA98949.1; GSPDB:GN00023; CESP:F56H9

A;Experimental source: clone F56H9
C;Genetics:

A;Gene: CESP:F56H9.1

A;Map position: 5

A;Introns: 235/1; 262/2; 320/1; 367/2; 510/3; 654/1; 681/2

Query Match 2.6%; Score 11; DB 2; Length 770;
Best Local Similarity 100.0%; Pred. No. 0.069;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 323 TTTTTTTTTT 333
|||||
Db 633 TTTTTTTTTT 643

RESULT 68

C69493

hypothetical protein AF1948 - Archaeoglobus fulgidus

C;Species: Archaeoglobus fulgidus

C;Date: 05-Dec-1997 #sequence_revision 05-Dec-1997 #text_change 09-Jul-2004
C;Accession: C69493

R;Klenk, H.P.; Clayton, R.A.; Tomb, J.F.; White, O.; Nelson, K.E.; Ketchum, K.A.; Dodson

; Fleischmann, R.D.; Quackenbush, J.; Lee, N.H.; Sutton, G.G.; Gill, S.; Kirkness, E.F.

Glodek, A.; Zhou, L.; Overbeek, R.; Gocayne, J.D.; Weidman, J.F.; McDonald, L.

Nature 390, 364-370, 1997

A;Authors: Uterback, T.; Cotton, M.D.; Spriggs, T.; Artiach, P.; Kaine, B.P.; Sykes, S.A.

Smith, H.O.; Woese, C.R.; Venter, J.C.

A;Title: The complete genome sequence of the hyperthermophilic, sulfate-reducing archaeo

A;Reference number: A69250; MUID:98049343; PMID:9389475

A;Accession: C69493

A;Status: preliminary; nucleic acid sequence not shown; translation not shown

A;Molecule type: DNA

A;Residues: 1-816 <KLE>

A;Cross-references: UNIPROT:O28331; GB:AE000968; GB:AE000782; NID:g2689291; PIDN:AAB89301

Query Match 2.6%; Score 11; DB 2; Length 816;
Best Local Similarity 100.0%; Pred. No. 0.072;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 322 PTTTTTTTTT 332
|||||
Db 159 PTTTTTTTTT 169

RESULT 69

T16232

hypothetical protein F32A5.2 - Caenorhabditis elegans

C;Species: Caenorhabditis elegans

C;Date: 20-Sep-1999 #sequence_revision 20-Sep-1999 #text_change 20-Sep-1999
C;Accession: T16232

R;Fauley, A.

submitted to the EMBL Data Library, July 1995

A;Description: The sequence of C. elegans cosmid F32A5.

A;Reference number: Z18482

A;Accession: T16232

A;Status: preliminary; translated from GB/EMBL/DBJ

A;Molecule type: DNA

A;Residues: 1-977 <PAU>

A;Cross-references: EMBL:U20864; NID:g669026; PID:g669033; PIDN:AAC46666.1; CESP:F32A5.2

A;Experimental source: strain Bristol N2

C;Genetics:

A;Gene: CESP:F32A5.2

A;Introns: 23/1; 58/3; 102/3; 136/2; 277/2; 380/2; 422/1; 502/1; 580/2; 648/1; 935/2

Query Match 2.6%; Score 11; DB 2; Length 977;
Best Local Similarity 100.0%; Pred. No. 0.084;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 320 PPTTTTTTTT 330
|||||
Db 357 PPTTTTTTTT 367

RESULT 70

T18275

1-phosphatidylinositol 3-kinase (EC 2.7.1.137) 4 - slime mold (Dictyostelium discoideum)

C;Species: Dictyostelium discoideum

C;Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 09-Jul-2004
C;Accession: T18275

R;Zhou, K.; Takegawa, K.; Emr, S.D.; Firtel, R.A.

Mol. Cell. Biol. 15, 5645-5656, 1995

A;Title: A phosphatidylinositol (PI) kinase gene family in Dictyostelium discoideum: Bio

A;Reference number: Z06411

A;Accession: T18275

A;Status: preliminary; translated from GB/EMBL/DBJ

A;Molecule type: DNA

A;Residues: 1-1093 <ZHO>

A;Cross-references: UNIPROT:P54677; EMBL:U23479; NID:g733527; PID:g733528; PIDN:AAA85725

C;Genetics:

A>Note: PIK4
C;Keywords: phosphotransferase

Query Match 2.6%; Score 11; DB 2; Length 1093;
Best Local Similarity 100.0%; Pred. No. 0.092;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 323 TTTTNTTTTTT 333
Db 775 TTTTNTTTTTT 785

RESULT 71
D64237
hypothetical protein MG338 - Mycoplasma genitalium
C;Species: Mycoplasma genitalium
C;Date: 10-Nov-1995 #sequence_revision 10-Nov-1995 #text_change 09-Jul-2004
C;Accession: D64237
R;Fraser, C.M.; Gocayne, J.D.; White, O.; Adams, M.D.; Clayton, R.A.; Fleischmann, R.D.;
M.; Fuhrmann, J.; Nguyen, D.; Utterback, T.R.; Saudek, D.M.; Phillips, C.A.; Merrick, J.;
Science 270, 397-403, 1995.
A;Title: The minimal gene complement of Mycoplasma genitalium.
A;Reference number: A64200; MUID:96026346; PMID:7569993
A;Accession: D64237
A;Status: preliminary; nucleic acid sequence not shown; translation not shown
A;Molecule type: DNA
A;Residues: 1-1271 <TIGR>
A;Cross-references: UNIPROT:P47580; GB:U39716; GB:L43967; NID:G1046037; PID:G1046042; TI
A;Experimental source: strain G-37
C;Genetics:
A;Genetic code: SGC3

Query Match 2.6%; Score 11; DB 2; Length 1271;
Best Local Similarity 100.0%; Pred. No. 0.1;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 323 TTTTNTTTTTT 333
Db 354 TTTTNTTTTTT 364

RESULT 72
I38346
elastic titin - human (fragment)
C;Species: Homo sapiens (man)
C;Date: 29-May-1998 #sequence_revision 29-May-1998 #text_change 09-Jul-2004
C;Accession: I38346
R;Iabait, S.; Kolmerer, B.
Science 270, 293-296, 1995
A;Title: Titins: giant proteins in charge of muscle ultrastructure and elasticity.
A;Reference number: A57430; MUID:96026330; PMID:7569978
A;Accession: I38346
A;Status: preliminary; translated from GB/EMBL/DBJ
A;Molecule type: mRNA
A;Residues: 1-7962 <RES>
A;Cross-references: UNIPROT:Q10465; EMBL:X90569; NID:G1017426; PIDN:CAA62189.1; PID:G101
C;Genetics:
A;Gene: GDB:TTN
A;Cross-references: GDB:127867; OMIM:188840
A;Map position: 2q31-2q31

Query Match 2.6%; Score 11; DB 2; Length 7962;
Best Local Similarity 100.0%; Pred. No. 0.49;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 158 TIRWFKGNKEL 168
Db 901 TIRWFKGNKEL 911

RESULT 73
T51538

A;Note: PIK4
C;Keywords: phosphotransferase

Query Match 2.4%; Score 10; DB 2; Length 127;
Best Local Similarity 100.0%; Pred. No. 0.13;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 323 TTTTNTTTTTT 332
Db 39 TTTTNTTTTTT 48

RESULT 74
A60095
larval glue protein Lgp-1 precursor - fruit fly (Drosophila virilis)
C;Species: Drosophila virilis
C;Date: 03-Mar-1993 #sequence_revision 03-Mar-1993 #text_change 09-Jul-2004
C;Accession: A60095; S50126; S44060
R;Swida, U.; Lucka, L.; Kress, H.
Development 108, 269-280, 1990
A;Title: Glue protein genes in Drosophila virilis: their organization, developmental con
A;Reference number: A60095; MUID:90276249; PMID:2351069
A;Accession: A60095
A;Molecule type: DNA
A;Residues: 1-232 <SWI>
R;Lanio, W.; Swida, U.; Kress, H.
Biochim. Biophys. Acta 1219, 576-580, 1994
A;Title: Molecular cloning of the Drosophila virilis larval glue protein gene Lgp-3 and
A;Reference number: S50125; MUID:95002181; PMID:7918662
A;Accession: S50126
A;Status: preliminary; nucleic acid sequence not shown; translation not shown
A;Molecule type: DNA
A;Residues: 1-232 <LA2>
A;Cross-references: EMBL:Z29565; NID:G450901; PIDN:CAA82672.1; PID:G450903
A;Note: the nucleotide sequence was submitted to the EMBL Data Library, January 1994
C;Genetics:
A;Gene: FlyBase:Dvir/Lgp1
A;Cross-references: FlyBase:FBgn0010305
A;Map position: X16A
A;Introns: 10/1
C;Superfamily: salivary glue protein
C;Keywords: glycoprotein; salivary gland; tandem repeat
F;1-23/Domain: signal sequence #status predicted <SIG>
F;43-86,94-104/Region: 11-residue repeats (T-T-T-T-T-T-T-T-T-T)
F;105-160/Region: 8-residue repeats (T-T-T-T-T-T-T-T-T-T)

Query Match 2.4%; Score 10; DB 2; Length 232;
Best Local Similarity 100.0%; Pred. No. 0.22;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 322 PTTTNTTTTTT 331
Db 60 PTTTNTTTTTT 69

RESULT 75

nitrlase associated protein-like - Arabidopsis thaliana
N;Alternate names: protein T20K14_210
C;Species: Arabidopsis thaliana (mouse-ear cress)
C;Date: 18-Aug-2000 #sequence_revision 18-Aug-2000 #text_change 09-Jul-2004
C;Accession: T51538
R;Sato, S.; Nakamura, Y.; Kaneko, T.; Kato, T.; Asamizu, E.; Kotani, H.; Tabata, S.; Mew
submitted to the Protein Sequence Database, August 2000
A;Reference number: Z25394
A;Accession: T51538
A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-127 <SAT>
A;Cross-references: UNIPROT:Q9LF22; EMBL:AL391143
A;Experimental source: cultivar Columbia; BAC clone T20K14
C;Genetics:
A;Map position: 5
A;Introns: 97/3
A;Note: T20K14_210

GSFF3
salivary glue protein sgs-3 - fruit fly (Drosophila melanogaster)
C;Species: Drosophila melanogaster
C;Date: 28-May-1996 #sequence_revision 28-May-1986 #text_change 09-Jul-2004
C;Accession: A03329
R;Garfinkel, M.D.; Pruitt, R.E.; Meyerowitz, E.M.
J. Mol. Biol. 168, 765-789, 1983
A;Title: DNA sequences, gene regulation and modular protein evolution in the Drosophila
A;Reference number: A92904; MUID:83294545; PMID:6411930
A;Accession: A03329
A;Molecule type: DNA
A;Residues: 1-307 <GAR>
A;Cross-references: UNIPROT:P02840; GB:X01918; NID:g8581; PIDN:CAA25994.1; PID:g603989
C;Comment: This protein is produced by third-instar larvae.
C;Genetics:
A;Gene: sgs-3
A;Cross-references: FlyBase:FBgn0003373
A;Map position: 3L (68C)
A;Introns: 10/1
C;Superfamily: salivary glue protein
C;Keywords: salivary gland; tandem repeat

Query Match 2.4%; Score 10; DB 1; Length 307;
Best Local Similarity 100.0%; Pred. No. 0.27;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 323 TTTT TTTT TTT 332
 |||||
Db 45 TTTT TTTT TTT 54

Search completed: June 28, 2005, 10:21:29
Job time : 28.4289 secs

GenCore version 5.1.6

Copyright (c) 1993 - 2005 Compugen Ltd.

OM protein - protein search, using sw model

Run on: June 28, 2005, 09:55:58 ; Search time 109.051 Seconds
(without alignments)

1986.316 Million cell updates/sec

Title: US-10-622-237-4

Perfect score: 423

Sequence: 1 AAPPGLRLRLLLLLLSAAL.....TAINAEGGQNNSEKKEYF 423

Scoring table:

OLIGO Gapop 60.0 , Gapext 60.0

Searched: 1612378 seqs, 512079187 residues

Word size : 0

Total number of hits satisfying chosen parameters: 1612378

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 150 summaries

Database :

UniProt_03.*

1: uniprot_sprot.*

2: uniprot_trembl.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | DB ID | Description |
|------------|-------|-------------|--------|-------|---------------------|
| 1 | 423 | 100.0 | 445 | 2 | Q8R4L1 mus musculus |
| 2 | 342 | 80.9 | 456 | 2 | Q8R5M8 mus musculus |
| 3 | 334 | 79.0 | 445 | 2 | Q8K3T6 mus musculus |
| 4 | 314 | 74.2 | 417 | 2 | Q7TNL1 mus musculus |
| 5 | 314 | 74.2 | 428 | 2 | Q6F3J3 mus musculus |
| 6 | 313 | 74.0 | 336 | 2 | Q80VC4 mus musculus |
| 7 | 313 | 74.0 | 336 | 2 | Q9D6E7 mus musculus |
| 8 | 294 | 69.5 | 295 | 2 | Q9Z2H8 mus musculus |
| 9 | 227 | 53.7 | 476 | 2 | Q6AYP5 mus musculus |
| 10 | 150 | 35.5 | 333 | 2 | Q86WB8 mus musculus |
| 11 | 150 | 35.5 | 443 | 2 | Q8N2F4 mus musculus |
| 12 | 119 | 28.1 | 442 | 2 | Q8BYE7 mus musculus |
| 13 | 115 | 27.2 | 278 | 2 | Q9QYL3 mus musculus |
| 14 | 115 | 27.2 | 289 | 2 | Q9QYL5 mus musculus |
| 15 | 115 | 27.2 | 295 | 2 | Q9QYL6 mus musculus |
| 16 | 115 | 27.2 | 306 | 2 | Q9QYL4 mus musculus |
| 17 | 71 | 16.8 | 84 | 2 | Q6MZK6 mus musculus |
| 18 | 15 | 3.5 | 74 | 2 | Q610Z3 mus musculus |
| 19 | 15 | 3.5 | 86 | 2 | Q9TVF2 mus musculus |
| 20 | 15 | 3.5 | 98 | 2 | Q610S8 mus musculus |
| 21 | 15 | 3.5 | 102 | 2 | Q610Z3 mus musculus |
| 22 | 15 | 3.5 | 108 | 2 | Q9XWNO mus musculus |
| 23 | 15 | 3.5 | 115 | 2 | Q61046 mus musculus |
| 24 | 15 | 3.5 | 121 | 2 | Q8WAZ9 mus musculus |
| 25 | 15 | 3.5 | 122 | 2 | Q610Z3 mus musculus |
| 26 | 15 | 3.5 | 125 | 2 | Q610Z3 mus musculus |
| 27 | 15 | 3.5 | 125 | 2 | Q962W4 mus musculus |
| 28 | 15 | 3.5 | 126 | 2 | Q610Z1 mus musculus |
| 29 | 15 | 3.5 | 126 | 2 | Q610S6 mus musculus |
| 30 | 15 | 3.5 | 128 | 2 | P90603 mus musculus |
| 31 | 15 | 3.5 | 139 | 2 | Q61037 mus musculus |

| | | | | | |
|-----|----|-----|------|---|------------|
| 32 | 15 | 3.5 | 139 | 2 | P90601 |
| 33 | 15 | 3.5 | 139 | 2 | Q6WAZ8 |
| 34 | 15 | 3.5 | 140 | 2 | Q962W5 |
| 35 | 15 | 3.5 | 143 | 2 | O15776 |
| 36 | 15 | 3.5 | 148 | 2 | O61019 |
| 37 | 15 | 3.5 | 148 | 2 | Q6WB00 |
| 38 | 15 | 3.5 | 327 | 2 | Q25334 |
| 39 | 15 | 3.5 | 648 | 2 | Q86A81 |
| 40 | 15 | 3.5 | 1015 | 2 | Q86AG0 |
| 41 | 14 | 3.3 | 58 | 2 | Q6TUI3 |
| 42 | 14 | 3.3 | 107 | 2 | Q61050 |
| 43 | 14 | 3.3 | 216 | 2 | Q962W6 |
| 44 | 14 | 3.3 | 304 | 1 | Q90B CAEL |
| 45 | 14 | 3.3 | 341 | 2 | Q8IMS9 |
| 46 | 14 | 3.3 | 350 | 2 | Q7QIR0 |
| 47 | 14 | 3.3 | 356 | 2 | Q7PZ21 |
| 48 | 14 | 3.3 | 364 | 2 | Q7S2P4 |
| 49 | 14 | 3.3 | 365 | 2 | Q869R5 |
| 50 | 14 | 3.3 | 445 | 2 | Q7Q956 |
| 51 | 14 | 3.3 | 512 | 1 | WR33 ARATH |
| 52 | 14 | 3.3 | 517 | 1 | 1A1C DIACA |
| 53 | 14 | 3.3 | 518 | 2 | Q43753 |
| 54 | 14 | 3.3 | 667 | 2 | Q7YVY0 |
| 55 | 14 | 3.3 | 717 | 2 | Q8UIH5 |
| 56 | 14 | 3.3 | 746 | 2 | Q9V515 |
| 57 | 14 | 3.3 | 860 | 2 | Q23916 |
| 58 | 14 | 3.3 | 872 | 2 | Q26257 |
| 59 | 14 | 3.3 | 874 | 2 | Q76535 |
| 60 | 14 | 3.3 | 887 | 2 | Q23913 |
| 61 | 14 | 3.3 | 889 | 2 | Q23895 |
| 62 | 14 | 3.3 | 895 | 2 | Q86A69 |
| 63 | 14 | 3.3 | 937 | 2 | Q86147 |
| 64 | 14 | 3.3 | 1166 | 2 | Q8IP52 |
| 65 | 14 | 3.3 | 1728 | 2 | Q8SSU4 |
| 66 | 14 | 3.3 | 1832 | 2 | Q96503 |
| 67 | 14 | 3.3 | 1853 | 2 | Q7KT96 |
| 68 | 14 | 3.3 | 1893 | 2 | Q9NKC9 |
| 69 | 14 | 3.3 | 2208 | 2 | Q86HN4 |
| 70 | 14 | 3.3 | 3295 | 2 | Q66GT3 |
| 71 | 14 | 3.3 | 3550 | 2 | Q66GT4 |
| 72 | 13 | 3.1 | 56 | 2 | Q01601 |
| 73 | 13 | 3.1 | 56 | 2 | Q861E6 |
| 74 | 13 | 3.1 | 67 | 2 | Q95UY4 |
| 75 | 13 | 3.1 | 67 | 2 | Q95UY6 |
| 76 | 13 | 3.1 | 67 | 2 | Q86JN9 |
| 77 | 13 | 3.1 | 71 | 2 | Q9NI03 |
| 78 | 13 | 3.1 | 71 | 2 | Q6R5F0 |
| 79 | 13 | 3.1 | 72 | 2 | Q9W3Q9 |
| 80 | 13 | 3.1 | 89 | 2 | Q9NIP9 |
| 81 | 13 | 3.1 | 106 | 2 | Q6WB03 |
| 82 | 13 | 3.1 | 106 | 2 | Q6WB04 |
| 83 | 13 | 3.1 | 106 | 2 | Q6WB05 |
| 84 | 13 | 3.1 | 107 | 2 | Q6WB01 |
| 85 | 13 | 3.1 | 107 | 2 | Q6WB08 |
| 86 | 13 | 3.1 | 107 | 2 | Q9NIO1 |
| 87 | 13 | 3.1 | 108 | 2 | Q6WB02 |
| 88 | 13 | 3.1 | 109 | 2 | Q01619 |
| 89 | 13 | 3.1 | 115 | 2 | Q9BJQ9 |
| 90 | 13 | 3.1 | 116 | 2 | Q9BJQ2 |
| 91 | 13 | 3.1 | 118 | 2 | Q9NIP8 |
| 92 | 13 | 3.1 | 119 | 2 | Q61034 |
| 93 | 13 | 3.1 | 119 | 2 | Q9N6G3 |
| 94 | 13 | 3.1 | 120 | 2 | Q9GQV0 |
| 95 | 13 | 3.1 | 120 | 2 | Q9NIO0 |
| 96 | 13 | 3.1 | 123 | 2 | Q61027 |
| 97 | 13 | 3.1 | 123 | 2 | P90602 |
| 98 | 13 | 3.1 | 128 | 2 | Q9NIO2 |
| 99 | 13 | 3.1 | 130 | 2 | Q6WB06 |
| 100 | 13 | 3.1 | 131 | 2 | Q9D9N0 |
| 101 | 13 | 3.1 | 132 | 2 | Q9NIO3 |
| 102 | 13 | 3.1 | 139 | 2 | Q7Z0N2 |
| 103 | 13 | 3.1 | 143 | 2 | Q8IT82 |
| 104 | 13 | 3.1 | 150 | 2 | Q9BJQ6 |

| | |
|------------|-------------|
| P90601 | trypanosoma |
| Q6WAZ8 | trypanosoma |
| Q962W5 | trypanosoma |
| O15776 | trypanosoma |
| O61019 | trypanosoma |
| Q6WB00 | trypanosoma |
| Q25334 | leishmania |
| Q86A81 | d simlar t |
| Q86AG0 | dictyosteli |
| Q6TUI3 | rattus norv |
| Q61050 | trypanosoma |
| Q962W6 | trypanosoma |
| Q90B CAEL | caenorhabdi |
| Q8IMS9 | drosophila |
| Q7QIR0 | anopheles g |
| Q7PZ21 | anopheles g |
| Q7S2P4 | neurospora |
| Q869R5 | dictyosteli |
| Q7Q956 | anopheles g |
| WR33 ARATH | arabidopsis |
| 1A1C DIACA | dianthus ca |
| Q43753 | dianthus ca |
| Q7YVY0 | cryptospori |
| Q8UIH5 | pyrococcus |
| Q9V515 | drosophila |
| Q23916 | dictyosteli |
| Q26257 | dictyosteli |
| Q76535 | dictyosteli |
| Q23913 | dictyosteli |
| Q23895 | dictyosteli |
| Q86A69 | dictyosteli |
| Q86147 | dictyosteli |
| Q8IP52 | drosophila |
| Q8SSU4 | dictyosteli |
| Q96503 | cryptospori |
| Q7KT96 | drosophila |
| Q9NKC9 | drosophila |
| Q86HN4 | dictyosteli |
| Q66GT3 | rattus norv |
| Q66GT4 | rattus norv |
| Q01601 | pneumocysti |
| Q861E6 | dictyosteli |
| Q95UY4 | plasmidium |
| Q95UY6 | plasmidium |
| Q86JN9 | dictyosteli |
| Q9NI03 | plasmidium |
| Q6R5F0 | mus musculu |
| Q9W3Q9 | drosophila |
| Q9NIP9 | trypanosoma |
| Q6WB03 | trypanosoma |
| Q6WB04 | trypanosoma |
| Q6WB05 | trypanosoma |
| Q6WB01 | trypanosoma |
| Q6WB08 | trypanosoma |
| Q9NIO1 | trypanosoma |
| Q6WB02 | trypanosoma |
| Q01619 | pneumocysti |
| Q9BJQ9 | plasmidium |
| Q9BJQ2 | plasmidium |
| Q9NIP8 | trypanosoma |
| Q61034 | trypanosoma |
| Q9N6G3 | trypanosoma |
| Q9GQV0 | plasmidium |
| Q9NIO0 | trypanosoma |
| Q61027 | trypanosoma |
| P90602 | trypanosoma |
| Q9NIO2 | trypanosoma |
| Q6WB06 | trypanosoma |
| Q9D9N0 | mus musculu |
| Q9NIO3 | trypanosoma |
| Q7Z0N2 | caenorhabdi |
| Q8IT82 | plasmidium |
| Q9BJQ6 | plasmidium |

105 13 3.1 150 2 Q9BJQ7 Q9bjq7 plasmodium
 106 13 3.1 150 2 Q9GQX3 Q9gqx3 plasmodium
 107 13 3.1 150 2 Q8LEL8 Q8lel8 arabidopsis
 108 13 3.1 152 2 Q8BSQ8 Q8bsq8 mus musculus
 109 13 3.1 155 2 Q6USF5 Q6usf5 plasmodium
 110 13 3.1 157 2 Q25713 Q25713 plasmodium
 111 13 3.1 160 2 Q94669 Q94669 plasmodium
 112 13 3.1 163 2 Q9NVJ5 Q9nvj5 homo sapien
 113 13 3.1 163 2 Q8KLH8 Q8klh8 mus musculus
 114 13 3.1 164 2 Q9BJQ5 Q9bjq5 plasmodium
 115 13 3.1 202 2 Q01615 Q01615 pneumocysti
 116 13 3.1 205 2 Q15777 Q15777 trypanosoma
 117 13 3.1 205 2 Q15911 Q15911 dictyosteli
 118 13 3.1 207 2 Q25701 Q25701 plasmodium
 119 13 3.1 209 2 Q61055 Q61055 trypanosoma
 120 13 3.1 210 2 Q9Y025 Q9y025 trypanosoma
 121 13 3.1 211 2 Q00026 Q00026 ajellomyces
 122 13 3.1 217 1 SGS3 DROSI P13729 drosophila
 123 13 3.1 229 2 Q9VIA7 Q9via7 drosophila
 124 13 3.1 242 2 Q9VDN0 Q9vxn0 caenorhabdi
 125 13 3.1 245 2 Q9XWP2 Q9xwp2 caenorhabdi
 126 13 3.1 259 2 Q86IM4 Q86im4 dictyosteli
 127 13 3.1 260 2 Q8IT83 Q8it83 plasmodium
 128 13 3.1 274 1 MSA2 PLAF6 P50497 plasmodium
 129 13 3.1 277 2 Q86IC7 Q86ic7 dictyosteli
 130 13 3.1 278 2 Q25862 Q25862 plasmodium
 131 13 3.1 283 2 Q86IL5 Q86il5 dictyosteli
 132 13 3.1 284 2 Q20202 Q20202 caenorhabdi
 133 13 3.1 291 2 Q94467 Q94467 dictyosteli
 134 13 3.1 312 2 Q01824 Q01824 pneumocysti
 135 13 3.1 336 1 RT09 CANAL Q94150 candida alb
 136 13 3.1 337 2 Q86K30 Q86k30 dictyosteli
 137 13 3.1 337 2 Q86K30 Q86k30 dictyosteli
 138 13 3.1 365 2 Q7YU08 Q7yuv8 trypanosoma
 139 13 3.1 367 2 Q7YU08 Q7yuv8 trypanosoma
 140 13 3.1 369 2 Q7YUQ1 Q7yuq1 trypanosoma
 141 13 3.1 369 2 Q7YUQ2 Q7yuq2 trypanosoma
 142 13 3.1 369 2 Q7YUQ3 Q7yuq3 trypanosoma
 143 13 3.1 369 2 Q7YUQ4 Q7yuq4 trypanosoma
 144 13 3.1 374 2 Q7QCS5 Q7qcs5 anophelies g
 145 13 3.1 386 2 Q01759 Q01759 pneumocysti
 146 13 3.1 392 2 Q8IIC1 Q8iic1 plasmodium
 147 13 3.1 392 2 Q69258 Q69258 mus musculus
 148 13 3.1 394 2 Q7ZXX1 Q7zxx1 xenopus lae
 149 13 3.1 395 2 Q8BXJ7 Q8bxj7 m mus muscu
 150 13 3.1 395 2 Q8BZP4 Q8bzp4 mus musculus

ALIGNMENTS

RESULT 1
 Q8R4L1 Q8R4L1 PRELIMINARY; PRT; 445 AA.
 AC Q8R4L1;
 DT 01-JUN-2002 (TrEMBLrel. 21, Created)
 DT 01-JUN-2002 (TrEMBLrel. 21, Last sequence update)
 DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
 DE Tumor suppressor in lung cancer 1.
 GN Name=Igsf4a;
 OS Mus musculus (Mouse).
 OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 OX NCBI_TaxID=10090;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC STRAIN=129/SvJ;
 RX MEDLINE=2226620; PubMed=12242005; DOI=10.1016/S0378-1119(02)00835-1;
 RA Fukami T., Satoh H., Fujita E., Maruyama T., Fukuhara H.,
 RA Kuramochi M., Takamoto S., Momoi T., Murakami Y.;
 RT Identification of the Tslci gene, a mouse orthologue of the human
 RT tumor suppressor TSLC1 gene.;
 RL Gene 295:7-12(2002).

DR EMBL; AF434663; AAL86736.1; --.
 DR MGD; MGI:1889272; Igsf4a.
 DR GO; GO:016021; C:integral to membrane; TAS.
 DR GO; GO:0045202; C:synapse; IDA.
 DR GO; GO:0008021; C:synaptic vesicle; IDA.
 DR GO; GO:0005515; F:protein binding; IPI.
 DR GO; GO:0016338; P:calcium-independent cell-cell adhesion; IDA.
 DR GO; GO:0007155; P:cell adhesion; IDA.
 DR GO; GO:0007416; P:synaptogenesis; IDA.
 DR InterPro; IPR007110; IG-like.
 DR InterPro; IPR003598; IG_C2.
 DR InterPro; IPR003585; Neurexin-like.
 DR Pfam; PF00047; ig; 2.
 DR SMART; SM00294; 4.1m; 1.
 DR SMART; SM00408; IGC2; 1.
 DR PROSITE; PS50835; IG_LIKE; 3.
 SQ SEQUENCE 445 AA; 48664 MW; C5D5A070DAF70E55 CRC64;
 Query Match 100.0%; Score 423; DB 2; Length 445;
 Best Local Similarity 100.0%; Pred. No. 0;
 Matches 423; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 AAPGRLRLLLLLLSAAALPTGQNLFTKDVTVIEGEVATISCQVKNKSDSVIQLLN 60
 DB 22 AAPGRLRLLLLLLSAAALPTGQNLFTKDVTVIEGEVATISCQVKNKSDSVIQLLN 81
 QY 61 PNQTIYPRDRPLKDSRFOLLNFSSELKVLSTNVISDEGRYFCQLYDTPPQSYTYI 120
 DB 82 PNQTIYPRDRPLKDSRFOLLNFSSELKVLSTNVISDEGRYFCQLYDTPPQSYTYI 141
 QY 121 TVLVPPRLNIMIDIQKDTAVEGEEIEVNCVTAMASKPATITIRWFKGNKELKGKSEVEEWSM 180
 DB 142 TVLVPPRLNIMIDIQKDTAVEGEEIEVNCVTAMASKPATITIRWFKGNKELKGKSEVEEWSM 201
 QY 181 YVTSQMLKVKHKDDGVPVICQVEHPAVTGNLQYLYEVQYKQVHQMTPYLOGLTR 240
 DB 202 YVTSQMLKVKHKDDGVPVICQVEHPAVTGNLQYLYEVQYKQVHQMTPYLOGLTR 261
 QY 241 EGDAPELTCEATGKQPQVMTWVRVDDDEMPQHAVLSGPNLFINNKNKTNGTYRCEASNI 300
 DB 262 EGDAPELTCEATGKQPQVMTWVRVDDDEMPQHAVLSGPNLFINNKNKTNGTYRCEASNI 321
 QY 301 VGKAHSDYMLYVDPPTTTPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 360
 DB 322 VGKAHSDYMLYVDPPTTTPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 381
 QY 361 GVAVVVFVFMCLLIILGRYFARHKGTYFTHAKGADDAADADTAIINAEQQNNSEKK 420
 DB 382 GVAVVVFVFMCLLIILGRYFARHKGTYFTHAKGADDAADADTAIINAEQQNNSEKK 441
 QY 421 EYF 423
 DB 442 EYF 444

RESULT 2

Q8R5M8 Q8R5M8 PRELIMINARY; PRT; 456 AA.
 AC Q8R5M8;
 DT 01-JUN-2002 (TrEMBLrel. 21, Created)
 DT 01-JUN-2002 (TrEMBLrel. 21, Last sequence update)
 DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
 DE RAL75.
 GN Name=Igsf4a; Synonyms=RAL75;
 OS Mus musculus (Mouse).
 OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 OX NCBI_TaxID=10090;
 RN [1]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=22683149; PubMed=12799182; DOI=10.1016/S0014-4827(03)00095-8;
 RA Fujita E., Soyama A., Momoi T.;
 RT "RAL75, which is the mouse ortholog of TSLC1, a tumor suppressor gene

in human lung cancer, is a cell adhesion molecule.";
 RL Exp. Cell Res. 287:57-66(2003).
 DR EMBL; AB064265; BAB83501.2; -;
 DR MGD; MGI:1889272; Igsf4a.
 DR GO; GO:0016021; C:integral to membrane; TAS.
 DR GO; GO:0045202; C:synapse; IDA.
 DR GO; GO:0008021; C:synaptic vesicle; IDA.
 DR GO; GO:0005515; P:protein binding; IPI.
 DR GO; GO:0016338; P:calcium-independent cell-cell adhesion; IDA.
 DR GO; GO:0007155; P:cell adhesion; IDA.
 DR GO; GO:0007416; P:synaptogenesis; IDA.
 DR InterPro; IPR007110; Ig-like.
 DR InterPro; IPR003598; Ig_c2.
 DR InterPro; IPR003585; Neurexin-like.
 DR Pfam; PF00047; Ig; 2.
 DR SMART; SM00294; 4.1m; 1.
 DR SMART; SM00408; IGC2; 1.
 DR PROSITE; PS0835; IG_LIKE; 3.
 SQ SEQUENCE 456 AA; 49787 MW; 3226B866A4BC1C7F CRC64;

Query Match 80.9%; Score 342; DB 2; Length 456;
 Best Local Similarity 100.0%; Pred. No. 0;
 Matches 342; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 AAPPGLRLRLLLLLSAAALIPGQNLFTKQVTVIEGEVATISCOVNSKSDSDSVIQLLN 60
 DB 22 AAPPGLRLRLLLLLSAAALIPGQNLFTKQVTVIEGEVATISCOVNSKSDSDSVIQLLN 81
 QY 61 PNRTIYFRPRPLKDSRFQLLNFSSSELKSVLTNVSISDEGRYFCQLYTDPPOESYTTI 120
 DB 82 PNRTIYFRPRPLKDSRFQLLNFSSSELKSVLTNVSISDEGRYFCQLYTDPPOESYTTI 141
 QY 121 TVLPPNRLMIDIQKOTAVEGEEIEVNCTAMASKPATIRFWKGNKELKGKSEVEEWSDM 180
 DB 142 TVLPPNRLMIDIQKOTAVEGEEIEVNCTAMASKPATIRFWKGNKELKGKSEVEEWSDM 201
 QY 181 YTVTSQMLKVKHEDDGPVLCQVEHPAVTGNLQRYLEVQYKPOVHIQNTYPLQGLTR 240
 DB 202 YTVTSQMLKVKHEDDGPVLCQVEHPAVTGNLQRYLEVQYKPOVHIQNTYPLQGLTR 261
 QY 241 EGDFAFELTCEAIGKQPQPMVTVWVDDMPQHAVLSPNLFINNLTNDNGTYRCEASNI 300
 DB 262 EGDFAFELTCEAIGKQPQPMVTVWVDDMPQHAVLSPNLFINNLTNDNGTYRCEASNI 321
 QY 301 VGKAHSDYMLYVDPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 342
 DB 322 VGKAHSDYMLYVDPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 363

RESULT 3
 Q8K3T6 PRELIMINARY; PRT; 445 AA.
 ID Q8K3T6
 AC Q8K3T6;
 DT 01-OCT-2002 (TrEMBLrel. 22, Created)
 DT 01-OCT-2002 (TrEMBLrel. 22, Last sequence update)
 DT 25-OCT-2004 (TrEMBLrel. 28, Last annotation update)
 DE Synaptic cell adhesion molecule 1 (RA175 isoform c).
 GN Name=Igsf4a; Synonyms=RA175;
 OS Mus musculus (Mouse).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 OX NCBI_TaxID=10090;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC STRAIN=C57BL;
 RX MEDLINE=2219378; PubMed=12202822; DOI=10.1126/science.1072356;
 RA Biederer T., Sara Y., Mozhayeva M., Atsboy D., Liu X., Kavalali E.T.,
 RA Sudhof T.C.;
 RT "SynCAM, a Synaptic Adhesion Molecule That Drives Synapse Assembly.";
 RL Science 297:1525-1531(2002).
 RN [2]
 RP SEQUENCE FROM N.A.
 RA Fujita E., Aikawa K., Momoi T.;

Submitted (JUL-2004) to the EMBL/GenBank/DBJ databases.
 RL EMBL; AF539424; AAN01614.1; -;
 DR EMBL; AB183399; BAD30018.1; -;
 DR MGD; MGI:1889272; Igsf4a.
 DR GO; GO:0016021; C:integral to membrane; TAS.
 DR GO; GO:0045202; C:synapse; IDA.
 DR GO; GO:0008021; C:synaptic vesicle; IDA.
 DR GO; GO:0005515; P:protein binding; IPI.
 DR GO; GO:0016338; P:calcium-independent cell-cell adhesion; IDA.
 DR GO; GO:0007155; P:cell adhesion; IDA.
 DR GO; GO:0007416; P:synaptogenesis; IDA.
 DR InterPro; IPR007110; Ig-like.
 DR InterPro; IPR003598; Ig_c2.
 DR InterPro; IPR003585; Neurexin-like.
 DR Pfam; PF00047; Ig; 2.
 DR SMART; SM00294; 4.1m; 1.
 DR SMART; SM00408; IGC2; 1.
 DR PROSITE; PS0835; IG_LIKE; 3.
 SQ SEQUENCE 445 AA; 48666 MW; 5B336F23F1877497 CRC64;

Query Match 79.0%; Score 334; DB 2; Length 445;
 Best Local Similarity 100.0%; Pred. No. 2.4e-313;
 Matches 334; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 AAPPGLRLRLLLLLSAAALIPGQNLFTKQVTVIEGEVATISCOVNSKSDSDSVIQLLN 60
 DB 22 AAPPGLRLRLLLLLSAAALIPGQNLFTKQVTVIEGEVATISCOVNSKSDSDSVIQLLN 81
 QY 61 PNRTIYFRPRPLKDSRFQLLNFSSSELKSVLTNVSISDEGRYFCQLYTDPPOESYTTI 120
 DB 82 PNRTIYFRPRPLKDSRFQLLNFSSSELKSVLTNVSISDEGRYFCQLYTDPPOESYTTI 141
 QY 121 TVLPPNRLMIDIQKOTAVEGEEIEVNCTAMASKPATIRFWKGNKELKGKSEVEEWSDM 180
 DB 142 TVLPPNRLMIDIQKOTAVEGEEIEVNCTAMASKPATIRFWKGNKELKGKSEVEEWSDM 201
 QY 181 YTVTSQMLKVKHEDDGPVLCQVEHPAVTGNLQRYLEVQYKPOVHIQNTYPLQGLTR 240
 DB 202 YTVTSQMLKVKHEDDGPVLCQVEHPAVTGNLQRYLEVQYKPOVHIQNTYPLQGLTR 261
 QY 241 EGDFAFELTCEAIGKQPQPMVTVWVDDMPQHAVLSPNLFINNLTNDNGTYRCEASNI 300
 DB 262 EGDFAFELTCEAIGKQPQPMVTVWVDDMPQHAVLSPNLFINNLTNDNGTYRCEASNI 321
 QY 301 VGKAHSDYMLYVDPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 334
 DB 322 VGKAHSDYMLYVDPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 355

RESULT 4
 Q7TNL1 PRELIMINARY; PRT; 417 AA.
 ID Q7TNL1
 AC Q7TNL1;
 DT 01-OCT-2003 (TrEMBLrel. 25, Created)
 DT 01-OCT-2003 (TrEMBLrel. 25, Last sequence update)
 DT 25-OCT-2004 (TrEMBLrel. 28, Last annotation update)
 DE Nectin-like molecule 2 (RA175 isoform d).
 GN Name=RA175;
 OS Mus musculus (Mouse).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 OX NCBI_TaxID=10090;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC STRAIN=C57BL/6; TISSUE=Brain;
 RX MEDLINE=22841094; PubMed=12826663; DOI=10.1074/jbc.M305387200;
 RA Shingai T., Ikeda W., Kakunaga S., Morimoto K., Takekuni K., Itoh S.,
 RA Satoh K., Takeuchi M., Imai T., Monden M., Takai Y.;
 RT "Implications of nectin-like molecule-
 RT 2/IGSP4/RA175/SGISF/TSICI/SyncAM1 in cell-cell adhesion and
 RT transmembrane protein localization in epithelial cells.";
 RL J. Biol. Chem. 278:35421-35427(2003).
 RN [2]

| | | | |
|--|--|---|--------------|
| QY | 241 | EGDAFELTCEAIGKQPQVMTWVRVDDMPQHAVLSGPNLFINNKNKTGNTGTYCEASNI | 300 |
| Db | 262 | EGDAFELTCEAIGKQPQVMTWVRVDDMPQHAVLSGPNLFINNKNKTGNTGTYCEASNI | 321 |
| QY | 301 | VGKAHSDYMLYVY | 313 |
| Db | 322 | VGKAHSDYMLYVY | 334 |
| RESULT 8 | | | |
| Q922H8 | | PRELIMINARY; | PRT; 295 AA. |
| AC | Q922H8; | | |
| DT | 01-MAY-1999 | (TrEMBLrel. 10, Created) | |
| DT | 01-MAY-1999 | (TrEMBLrel. 10, Last sequence update) | |
| DT | 01-OCT-2003 | (TrEMBLrel. 25, Last annotation update) | |
| DE | Nectin-like protein 2. | | |
| GN | Name=Igsf4a; Synonyms=Nec12; | | |
| OS | Mus musculus (Mouse). | | |
| OC | Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; | | |
| OC | Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus. | | |
| OX | NCBI_TaxID=10090; | | |
| RN | [1] | | |
| RP | SEQUENCE FROM N.A. | | |
| RA | Zhou Y., Du G., Chen J., Yuan J., Qiang B.; | | |
| RL | Submitted (APR-1998) to the EMBL/GenBank/DBJ databases. | | |
| DR | EMBL; AF061260; AAC67243.1; - | | |
| DR | MGD; MGI:1889272; Igsf4a. | | |
| DR | GO; GO:0016021; C:integral to membrane; TAS. | | |
| DR | GO; GO:0045202; C:synapse; IDA. | | |
| DR | GO; GO:0008021; C:synaptic vesicle; IDA. | | |
| DR | GO; GO:0005515; F:protein binding; IPI. | | |
| DR | GO; GO:0016338; P:calcium-independent cell-cell adhesion; IDA. | | |
| DR | GO; GO:0007155; P:cell adhesion; IDA. | | |
| DR | GO; GO:0007416; P:synaptogenesis; IDA. | | |
| DR | InterPro; IPR007110; Ig-like. | | |
| DR | InterPro; IPR003598; Ig_c2. | | |
| DR | InterPro; IPR003585; Neurexin-like. | | |
| DR | Pfam; PF00047; Ig; 2. | | |
| DR | SMART; SM00294; 4.1m; 1. | | |
| DR | SMART; SM00408; IGC2; 1. | | |
| DR | PROSITE; PS50835; IG_LIKE; 2. | | |
| SQ | SEQUENCE 295 AA; 32509 MW; 9DE9D86F6FF6F488 CRC64; | | |
| Query Match 69.5%; Score 294; DB 2; Length 295; | | | |
| Best Local Similarity 100.0%; Pred. No. 7.1e-275; | | | |
| Matches 294; Conservative 0; Mismatches 0; Indels 0; Gaps 0; | | | |
| QY | 130 | MIDIQDQTAVEGEIEVNCCTAMASKPATTIRWFKGNKELKGKSEVEEWSMDYTVTSQML | 189 |
| Db | 1 | MIDIQDQTAVEGEIEVNCCTAMASKPATTIRWFKGNKELKGKSEVEEWSMDYTVTSQML | 60 |
| QY | 190 | KVHKEDGVPVICOVEHPATVGNLQRYLEYQVKPQVHIQMTYPLQGLTREGDAFELTC | 249 |
| Db | 61 | KVHKEDGVPVICOVEHPATVGNLQRYLEYQVKPQVHIQMTYPLQGLTREGDAFELTC | 120 |
| QY | 250 | BAIGKQPQVMTWVRVDDMPQHAVLSGPNLFINNKNKTGNTGRCASNIVGKAHSDYM | 309 |
| Db | 121 | BAIGKQPQVMTWVRVDDMPQHAVLSGPNLFINNKNKTGNTGRCASNIVGKAHSDYM | 180 |
| QY | 310 | LYVYDPTTIPPTTTTTTTTTTTTTTTTTTTTTTTSDRAGEEGTIGAVDHAVIGGVAVVVFA | 369 |
| Db | 181 | LYVYDPTTIPPTTTTTTTTTTTTTTTTTTTTTTTSDRAGEEGTIGAVDHAVIGGVAVVVFA | 240 |
| QY | 370 | MLCLLIILGRYFARHKGTYFTHEAKGADDAADADTAIINAEQQNNSEKKEYF | 423 |
| Db | 241 | MLCLLIILGRYFARHKGTYFTHEAKGADDAADADTAIINAEQQNNSEKKEYF | 294 |
| RESULT 9 | | | |
| Q6AYP5 | | PRELIMINARY; | PRT; 476 AA. |
| ID | Q6AYP5 | | |
| AC | Q6AYP5; | | |

| | | | |
|--|--|--|--------------|
| DT | 25-OCT-2004 | (T-EMBLrel. 28, Created) | |
| DT | 25-OCT-2004 | (T-EMBLrel. 28, Last sequence update) | |
| DT | 25-OCT-2004 | (T-EMBLrel. 28, Last annotation update) | |
| DE | Hypothetical protein. | | |
| OS | Rattus norvegicus (Rat). | | |
| OC | Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; | | |
| OC | Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus. | | |
| OX | NCBI_TaxID=10116; | | |
| RN | [1] | | |
| RP | SEQUENCE FROM N.A. | | |
| RC | TISSUE=Testis; | | |
| RX | PubMed=12477932; DOI=10.1073/pnas.242603899; | | |
| RA | Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G., | | |
| RA | Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D., | | |
| RA | Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K., | | |
| RA | Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F., | | |
| RA | Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L., | | |
| RA | Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E., | | |
| RA | Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C., | | |
| RA | Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J., | | |
| RA | Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H., | | |
| RA | Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W., | | |
| RA | Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A., | | |
| RA | Fahy J., Helton E., Kettelman M., Madan A., Rodrigues S., Sanchez A., | | |
| RA | Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G., | | |
| RA | Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C., | | |
| RA | Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M., Butterfield Y.S., | | |
| RA | Krzewinski M.I., Skalska U., Smailus D.E., Schnerch A., Schein J.E., | | |
| RA | Jones S.J., Marra M.A.; | | |
| RT | "Generation and initial analysis of more than 15,000 full-length human | | |
| RT | and mouse cDNA sequences."; | | |
| RL | Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002). | | |
| RN | [2] | | |
| RP | SEQUENCE FROM N.A. | | |
| RC | TISSUE=Testis; | | |
| RA | Director MGC Project; | | |
| RL | Submitted (AUG-2004) to the EMBL/GenBank/DBJ databases. | | |
| DR | EMBL; BC078966; AAH78966.1; - | | |
| DR | InterPro; IPR003599; Ig. | | |
| DR | InterPro; IPR007110; Ig-like. | | |
| DR | InterPro; IPR003598; Ig_c2. | | |
| DR | Pfam; PF00047; Ig; 3. | | |
| DR | SMART; SM00409; IG; 3. | | |
| DR | SMART; SM00408; IGC2; 3. | | |
| DR | PROSITE; PS50835; IG_LIKE; 3. | | |
| KW | Hypothetical protein_ | | |
| SQ | SEQUENCE 476 AA; 51853 MW; 486A43D37082C8FE CRC64; | | |
| Query Match 53.7%; Score 227; DB 2; Length 476; | | | |
| Best Local Similarity 100.0%; Pred. No. 5.2e-210; | | | |
| Matches 227; Conservative 0; Mismatches 0; Indels 0; Gaps 0; | | | |
| Qy | 1 | AAPGRLRLILLISAAALIPGDCGNLFTKDVTVIEGVAISQVNVKSDSVIQLLN | 60 |
| Db | 22 | AAPGRLRLILLISAAALIPGDCGNLFTKDVTVIEGVAISQVNVKSDSVIQLLN | 81 |
| Qy | 61 | PNRQTYIFRDLKDSRFQLLNFFSSSELKSLVNTVNSISDEGRYFCOLYTDPPQESYTTI | 120 |
| Db | 82 | PNRQTYIFRDLKDSRFQLLNFFSSSELKSLVNTVNSISDEGRYFCOLYTDPPQESYTTI | 141 |
| Qy | 121 | TVLVPRLNLMIDTQKDTAVEGEEIYVNCCTAMASKPATTIRWFKGNKELKGKSEVEEWSM | 180 |
| Db | 142 | TVLVPRLNLMIDTQKDTAVEGEEIYVNCCTAMASKPATTIRWFKGNKELKGKSEVEEWSM | 201 |
| Qy | 181 | YTVTSQMLKVKHKEDGVPVICOVEHPATVGNLQRYLEYQVKPQV | 227 |
| Db | 202 | YTVTSQMLKVKHKEDGVPVICOVEHPATVGNLQRYLEYQVKPQV | 248 |
| RESULT | 10 | | |
| Q86WB8 | | | |
| ID | Q86WB8 | PRELIMINARY; | PRT; 333 AA. |
| AC | Q86WB8 | | |

```

DT 01-JUN-2003 (T-EMBLrel. 24, Created)
DT 01-JUN-2003 (T-EMBLrel. 24, Last sequence update)
DT 01-MAR-2004 (T-EMBLrel. 26, Last annotation update)
DE Secretory isoform of TSLC-1.
GN Name=sTSLC-1;
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP TISSUE=Lung;
RC
RL Submitted (OCT-2002) to the EMBL/GenBank/DBJ databases.
DR EMBL; AB094146; BAC66178.1; -.
DR InterPro; IPR007110; Ig-like.
DR InterPro; IPR003598; Ig_c2.
DR Pfam; PF00047; Ig; 2.
DR SMART; SM00408; IGC2; 1.
DR PROSITE; PS00835; IG_LIKE; 3.
SQ SEQUENCE 333 AA; 36915 MW; D7C1102F46D08492 CRC64;

Query Match 35.5%; Score 150; DB 2; Length 333;
Best Local Similarity 100.0%; Pred. No. 8.3e-136;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 16 SAAALPTGQGNLFTKDVTVIEGEVATISCVNKSDDSVIQLNPNRQTIYFRDPRPLK 75
DB 34 SAAALPTGQGNLFTKDVTVIEGEVATISCVNKSDDSVIQLNPNRQTIYFRDPRPLK 93

QY 76 DSRFQLNFSSELKVSLSLTVNVSISDEGRYFCQLYTPPQESYTTITVLVPPRLMIDIQ 135
DB 94 DSRFQLNFSSELKVSLSLTVNVSISDEGRYFCQLYTPPQESYTTITVLVPPRLMIDIQ 153

QY 136 DTAVEGEIEVNCNTAMASKPATIRWFKGN 165
DB 154 DTAVEGEIEVNCNTAMASKPATIRWFKGN 183

RESULT 11
QBN2F4 PRELIMINARY; PRT; 443 AA.
ID QBN2F4
AC QBN2F4;
DT 01-OCT-2002 (T-EMBLrel. 22, Created)
DT 01-OCT-2002 (T-EMBLrel. 22, Last sequence update)
DT 01-MAR-2004 (T-EMBLrel. 26, Last annotation update)
DE Hypothetical protein PSEC0200.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP TISSUE-whole embryo;
RC
RA Ota T., Nishikawa T., Suzuki Y., Kawai-Hio Y., Hayaishi K., Ishii S.,
RA Saito K., Yamamoto J., Wakamatsu A., Nagai T., Nakamura Y.,
RA Nagahari K., Sugano S., Isogai T.;
RL Submitted (MAR-2002) to the EMBL/GenBank/DBJ databases.
DR EMBL; AK075502; BAC11657.1; -.
DR Genew; HGNC:5951; IGSF4.
DR InterPro; IPR007110; Ig-like.
DR InterPro; IPR003598; Ig_c2.
DR InterPro; IPR003585; Neurexin-like.
DR Pfam; PF00047; Ig; 2.
DR SMART; SM00294; 4.1m; 1.
DR SMART; SM00408; IGC2; 1.
DR PROSITE; PS00835; IG_LIKE; 3.
SQ SEQUENCE 443 AA; 48648 MW; 046B43AA156F6F64 CRC64;

Query Match 35.5%; Score 150; DB 2; Length 443;
Best Local Similarity 100.0%; Pred. No. 1.1e-135;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 16 SAAALPTGQGNLFTKDVTVIEGEVATISCVNKSDDSVIQLNPNRQTIYFRDPRPLK 75
DB 34 SAAALPTGQGNLFTKDVTVIEGEVATISCVNKSDDSVIQLNPNRQTIYFRDPRPLK 93

QY 76 DSRFQLNFSSELKVSLSLTVNVSISDEGRYFCQLYTPPQESYTTITVLVPPRLMIDIQ 135
DB 94 DSRFQLNFSSELKVSLSLTVNVSISDEGRYFCQLYTPPQESYTTITVLVPPRLMIDIQ 153

QY 136 DTAVEGEIEVNCNTAMASKPATIRWFKGN 165
DB 154 DTAVEGEIEVNCNTAMASKPATIRWFKGN 183

RESULT 12
Q9BY67 PRELIMINARY; PRT; 442 AA.
ID Q9BY67
AC Q9BY67;
DT 01-JUN-2001 (T-EMBLrel. 17, Created)
DT 01-JUN-2001 (T-EMBLrel. 17, Last sequence update)
DT 01-OCT-2003 (T-EMBLrel. 25, Last annotation update)
DE Nectin-like protein 2.
GN Name=NECL2;
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RA Zhou Y., Du G., Chen J., Yuan J., Qiang B.;
RL Submitted (MAR-1999) to the EMBL/GenBank/DBJ databases.
DR EMBL; AF132811; AAF69029.1; -.
DR InterPro; IPR007110; Ig-like.
DR InterPro; IPR003598; Ig_c2.
DR InterPro; IPR003585; Neurexin-like.
DR Pfam; PF00047; Ig; 2.
DR SMART; SM00294; 4.1m; 1.
DR SMART; SM00408; IGC2; 1.
DR PROSITE; PS00835; IG_LIKE; 3.
SQ SEQUENCE 442 AA; 48537 MW; 68183E3238735062 CRC64;

Query Match 28.1%; Score 119; DB 2; Length 442;
Best Local Similarity 100.0%; Pred. No. 8.9e-106;
Matches 119; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 16 SAAALPTGQGNLFTKDVTVIEGEVATISCVNKSDDSVIQLNPNRQTIYFRDPRPLK 75
DB 34 SAAALPTGQGNLFTKDVTVIEGEVATISCVNKSDDSVIQLNPNRQTIYFRDPRPLK 93

QY 76 DSRFQLNFSSELKVSLSLTVNVSISDEGRYFCQLYTPPQESYTTITVLVPPRLMIDIQ 134
DB 94 DSRFQLNFSSELKVSLSLTVNVSISDEGRYFCQLYTPPQESYTTITVLVPPRLMIDIQ 152

RESULT 13
Q9QYL3 PRELIMINARY; PRT; 278 AA.
ID Q9QYL3
AC Q9QYL3;
DT 01-MAY-2000 (T-EMBLrel. 13, Created)
DT 01-MAY-2000 (T-EMBLrel. 13, Last sequence update)
DT 01-OCT-2003 (T-EMBLrel. 25, Last annotation update)
DE Adhesion protein RA175N.
GN Name=igaf4; Synonyms=ral75n;
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RA MEDLINE=22683149; PubMed=12799182; DOI=10.1016/S0014-4827(03)00095-8;
RA Fujita E., Soyama A., Momoi T.;
RT "RA175, which is the mouse ortholog of TSLC1, a tumor suppressor gene
RT in human lung cancer, is a cell adhesion molecule."
RL Exp. Cell Res. 287:57-66(2003).

```



```

DR EMBL; AB021967; BAA87917.1; -.
DR MGD; MGI:1889272; Igsf4a.
DR GO; GO:0016021; C:integral to membrane; TAS.
DR GO; GO:0045202; C:synapse; IDA.
DR GO; GO:0008021; C:synaptic vesicle; IDA.
DR GO; GO:0005515; F:protein binding; IPI.
DR GO; GO:0016338; P:calcium-independent cell-cell adhesion; IDA.
DR GO; GO:0007155; P:cell adhesion; IDA.
DR GO; GO:0007416; P:synaptogenesis; IDA.
DR InterPro; IPR007110; Ig-like.
DR InterPro; IPR003598; Ig_c2.
DR InterPro; IPR003585; Neurexin-like.
DR Pfam; PF00047; Ig; 1.
DR SMART; SM00294; 4.1m; 1.
DR SMART; SM00408; IGC2; 1.
DR PROSITE; PS50835; IG_LIKE; 2.
SQ SEQUENCE 278 AA; 3636 MW; A295F4DEA2724B04 CRC64;

Query Match 27.2%; Score 115; DB 2; Length 278;
Best Local Similarity 100.0%; Pred. No. 4.4e-102;
Matches 115; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 130 MIDIQKDTAVEGEEIEVNCVTAMASKPATIRWFKGNKELKGKSEVEWSDMYTTSQML 189
Db 1 MIDIQKDTAVEGEEIEVNCVTAMASKPATIRWFKGNKELKGKSEVEWSDMYTTSQML 60

QY 190 KVHKEDDGVVICQVEHPAVTGNLQRYLEYQVKPVHIQMTYPLQGLTREGDA 244
Db 61 KVHKEDDGVVICQVEHPAVTGNLQRYLEYQVKPVHIQMTYPLQGLTREGDA 115

RESULT 14
QYQYL5 PRELIMINARY; PRT; 289 AA.
AC QYQYL5;
DT 01-MAY-2000 (TrEMBLrel. 13, Created)
DT 01-MAY-2000 (TrEMBLrel. 13, Last sequence update)
DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
DE Adhesion protein Ral75B.
GN Name=Igsf4a; Synonyms=ral75b;
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=22683149; PubMed=12799182; DOI=10.1016/S0014-4827(03)00095-8;
RA Fujita E., Soyama A., Momoi T.;
RT "RAL75, which is the mouse ortholog of TSLC1, a tumor suppressor gene
in human lung cancer, is a cell adhesion molecule.";
RL Exp. Cell Res. 287:57-66(2003).
DR EMBL; AB021965; BAA87915.1; -.
DR MGD; MGI:1889272; Igsf4a.
DR GO; GO:0016021; C:integral to membrane; TAS.
DR GO; GO:0045202; C:synapse; IDA.
DR GO; GO:0008021; C:synaptic vesicle; IDA.
DR GO; GO:0005515; F:protein binding; IPI.
DR GO; GO:0016338; P:calcium-independent cell-cell adhesion; IDA.
DR GO; GO:0007155; P:cell adhesion; IDA.
DR GO; GO:0007416; P:synaptogenesis; IDA.
DR InterPro; IPR007110; Ig-like.
DR InterPro; IPR003598; Ig_c2.
DR InterPro; IPR003585; Neurexin-like.
DR Pfam; PF00047; Ig; 1.
DR SMART; SM00294; 4.1m; 1.
DR SMART; SM00408; IGC2; 1.
DR PROSITE; PS50835; IG_LIKE; 2.
SQ SEQUENCE 289 AA; 31811 MW; 8D1B836D056A84 CRC64;

Query Match 27.2%; Score 115; DB 2; Length 289;
Best Local Similarity 100.0%; Pred. No. 4.5e-102;
Matches 115; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY 130 MIDIQKDTAVEGEEIEVNCVTAMASKPATIRWFKGNKELKGKSEVEWSDMYTTSQML 189
Db 1 MIDIQKDTAVEGEEIEVNCVTAMASKPATIRWFKGNKELKGKSEVEWSDMYTTSQML 60

QY 190 KVHKEDDGVVICQVEHPAVTGNLQRYLEYQVKPVHIQMTYPLQGLTREGDA 244
Db 61 KVHKEDDGVVICQVEHPAVTGNLQRYLEYQVKPVHIQMTYPLQGLTREGDA 115

RESULT 15
QYQYL6 PRELIMINARY; PRT; 295 AA.
AC QYQYL6;
DT 01-MAY-2000 (TrEMBLrel. 13, Created)
DT 01-MAY-2000 (TrEMBLrel. 13, Last sequence update)
DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
DE Adhesion protein Ral75A.
GN Name=Igsf4a; Synonyms=ral75a;
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=22683149; PubMed=12799182; DOI=10.1016/S0014-4827(03)00095-8;
RA Fujita E., Soyama A., Momoi T.;
RT "RAL75, which is the mouse ortholog of TSLC1, a tumor suppressor gene
in human lung cancer, is a cell adhesion molecule.";
RL Exp. Cell Res. 287:57-66(2003).
DR EMBL; AB021964; BAA87914.1; -.
DR MGD; MGI:1889272; Igsf4a.
DR GO; GO:0016021; C:integral to membrane; TAS.
DR GO; GO:0045202; C:synapse; IDA.
DR GO; GO:0008021; C:synaptic vesicle; IDA.
DR GO; GO:0005515; F:protein binding; IPI.
DR GO; GO:0016338; P:calcium-independent cell-cell adhesion; IDA.
DR GO; GO:0007155; P:cell adhesion; IDA.
DR GO; GO:0007416; P:synaptogenesis; IDA.
DR InterPro; IPR007110; Ig-like.
DR InterPro; IPR003598; Ig_c2.
DR InterPro; IPR003585; Neurexin-like.
DR Pfam; PF00047; Ig; 1.
DR SMART; SM00294; 4.1m; 1.
DR SMART; SM00408; IGC2; 1.
DR PROSITE; PS50835; IG_LIKE; 2.
SQ SEQUENCE 295 AA; 32347 MW; FDD9E8145C6B971B CRC64;

Query Match 27.2%; Score 115; DB 2; Length 295;
Best Local Similarity 100.0%; Pred. No. 4.6e-102;
Matches 115; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 130 MIDIQKDTAVEGEEIEVNCVTAMASKPATIRWFKGNKELKGKSEVEWSDMYTTSQML 189
Db 1 MIDIQKDTAVEGEEIEVNCVTAMASKPATIRWFKGNKELKGKSEVEWSDMYTTSQML 60

QY 190 KVHKEDDGVVICQVEHPAVTGNLQRYLEYQVKPVHIQMTYPLQGLTREGDA 244
Db 61 KVHKEDDGVVICQVEHPAVTGNLQRYLEYQVKPVHIQMTYPLQGLTREGDA 115

RESULT 16
QYQYL4 PRELIMINARY; PRT; 306 AA.
AC QYQYL4;
DT 01-MAY-2000 (TrEMBLrel. 13, Created)
DT 01-MAY-2000 (TrEMBLrel. 13, Last sequence update)
DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
DE Adhesion protein Ral75C.
GN Name=Igsf4a; Synonyms=ral75c;
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=22683149; PubMed=12799182; DOI=10.1016/S0014-4827(03)00095-8;
RA Fujita E., Soyama A., Momoi T.;
RT "RAL75, which is the mouse ortholog of TSLC1, a tumor suppressor gene
in human lung cancer, is a cell adhesion molecule.";
RL Exp. Cell Res. 287:57-66(2003).
DR EMBL; AB021965; BAA87915.1; -.
DR MGD; MGI:1889272; Igsf4a.
DR GO; GO:0016021; C:integral to membrane; TAS.
DR GO; GO:0045202; C:synapse; IDA.
DR GO; GO:0008021; C:synaptic vesicle; IDA.
DR GO; GO:0005515; F:protein binding; IPI.
DR GO; GO:0016338; P:calcium-independent cell-cell adhesion; IDA.
DR GO; GO:0007155; P:cell adhesion; IDA.
DR GO; GO:0007416; P:synaptogenesis; IDA.
DR InterPro; IPR007110; Ig-like.
DR InterPro; IPR003598; Ig_c2.
DR InterPro; IPR003585; Neurexin-like.
DR Pfam; PF00047; Ig; 1.
DR SMART; SM00294; 4.1m; 1.
DR SMART; SM00408; IGC2; 1.
DR PROSITE; PS50835; IG_LIKE; 2.
SQ SEQUENCE 289 AA; 31811 MW; 8D1B836D056A84 CRC64;

Query Match 27.2%; Score 115; DB 2; Length 289;
Best Local Similarity 100.0%; Pred. No. 4.5e-102;
Matches 115; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```



```

RN RP SEQUENCE FROM N.A.
EX MEDLINE=22683149; PubMed=12799182; DOI=10.1016/S0014-4827(03)00095-8;
RA Fujita E., Soyama A., Momoi T.;
RT "RAI75, which is the mouse ortholog of TSLC1, a tumor suppressor gene
RL in human lung cancer, is a cell adhesion molecule.";
RT Exp. Cell Res. 287:57-66(2003).
DR EMBL; AB021966; BAA87916.1; -.
DR MGD; MGI:11889272; Igsf4a.
DR GO; GO:0016021; C:integral to membrane; TAS.
DR GO; GO:0045202; C:synapse; IDA.
DR GO; GO:0008021; C:synaptic vesicle; IDA.
DR GO; GO:0005515; F:protein binding; IPI.
DR GO; GO:0016338; P:calcium-independent cell-cell adhesion; IDA.
DR GO; GO:0007155; P:cell adhesion; IDA.
DR GO; GO:0007416; P:synaptogenesis; IDA.
DR InterPro; IPR007110; Ig-like.
DR InterPro; IPR003598; Ig C2.
DR InterPro; IPR003585; Neurexin-like.
DR Pfam; PF000047; Ig; 1.
DR SMART; SM00294; 4.im; 1.
DR SMART; SM00408; IGC2; 1.
DR PROSITE; PS00835; IG_LIKE; 2.
SQ SEQUENCE 306 AA; 33522 MW; A4CE37B0F23554D5 CRC64;

Query Match 27.28; Score 115; DB 2; Length 306;
Best Local Similarity 100.0%; Pred. No. 4.7e-102;
Matches 115; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 130 MIDIQKTAVGEIEIVNCTAMASKPATTIRWFKGNKELKGKSEVEWSDMYTVTSQML 189
DB 1 MIDIQKTAVGEIEIVNCTAMASKPATTIRWFKGNKELKGKSEVEWSDMYTVTSQML 60

QY 190 KVKHEDDGPVICOVEHPAVTGNLQTORYLEVQYKPOVHIQMTYPLQGLTREGDA 244
DB 61 KVKHEDDGPVICOVEHPAVTGNLQTORYLEVQYKPOVHIQMTYPLQGLTREGDA 115

RESULT 17
Q6WZK6 Q6WZK6 PRELIMINARY; PRT; 84 AA.
AC Q6WZK6;
DT 05-JUL-2004 (TrEMBLrel. 27, Created)
DT 05-JUL-2004 (TrEMBLrel. 27, Last sequence update)
DE Hypothetical protein DKFZp686f1789 (Fragment).
GN Name=DKFZp686f1789;
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=Human retina;
RC The German Human cDNA Consortium;
RA Koehler K., Beyer A., Mewes H.W., Weil B., Amid C., Osanger A.,
RA Fobo G., Han M., Wlemann S.;
RL Submitted (AUG-2003) to the EMBL/GenBank/DBJ databases.
DR EMBL; BX641042; CAB46024.1; -.
KW Hypothetical protein.
FT NON TER 1
SQ SEQUENCE 84 AA; 8986 MW; D50A20AD25854087 CRC64;

Query Match 16.8%; Score 71; DB 2; Length 84;
Best Local Similarity 100.0%; Pred. No. 4.7e-60;
Matches 71; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 353 AVDHAVIGGVAVVVFAMLCILLILGRYFARHKGTFTYTHAKGADDAADATAIINAEGG 412
DB 13 AVDHAVIGGVAVVVFAMLCILLILGRYFARHKGTFTYTHAKGADDAADATAIINAEGG 72

QY 413 QNNSEKKEYF 423
|||||
```

```

Db 73 QNNSEKKEYF 83

RESULT 18
O61023 O61023 PRELIMINARY; PRT; 74 AA.
AC O61023;
DT 01-AUG-1998 (TrEMBLrel. 07, Created)
DT 01-AUG-1998 (TrEMBLrel. 07, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE Mucin-like protein (Fragment).
GN Name=EMUCe-4;
OS Trypanosoma cruzi.
OC Eukaryota; Euglenozoa; Kinetoplastida; Trypanosomatidae; Trypanosoma.
OX NCBI_TaxID=5693;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=Cl-Brenner;
RX MEDLINE=98225151; PubMed=9556557; DOI=10.1074/jbc.273.18.10843;
RA Di Noia J.M., D'Orso I., Aslund L., Sanchez D.O., Frasch A.C.;
RT "The Trypanosoma cruzi mucin family is transcribed from hundreds of
RL genes having hypervariable regions.";
RL J. Biol. Chem. 273:10843-10850(1998).
DR EMBL; AF036411; AAC14222.1; -.
DR InterPro; IPR000458; Tryp_mucin.
DR Pfam; PF01456; Mucin; 1.
FT NON TER 74
SQ SEQUENCE 74 AA; 7743 MW; 734CC37663E21401 CRC64;

Query Match 3.5%; Score 15; DB 2; Length 74;
Best Local Similarity 100.0%; Pred. No. 4.9e-06;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 321 PPTTTTTTTTTTTT 335
DB 59 PPTTTTTTTTTTTT 73

RESULT 19
Q9TVF2 Q9TVF2 PRELIMINARY; PRT; 86 AA.
AC Q9TVF2;
DT 01-MAY-2000 (TrEMBLrel. 13, Created)
DT 01-MAY-2000 (TrEMBLrel. 13, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE Mucin-like protein (Fragment).
GN Name=EMUCe-12;
OS Trypanosoma cruzi.
OC Eukaryota; Euglenozoa; Kinetoplastida; Trypanosomatidae; Trypanosoma.
OX NCBI_TaxID=5693;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=Cl-Brenner;
RX MEDLINE=98225151; PubMed=9556557; DOI=10.1074/jbc.273.18.10843;
RA Di Noia J.M., D'Orso I., Aslund L., Sanchez D.O., Frasch A.C.;
RT "The Trypanosoma cruzi mucin family is transcribed from hundreds of
RL genes having hypervariable regions.";
RL J. Biol. Chem. 273:10843-10850(1998).
DR EMBL; AF036436; AAC14240.1; -.
DR InterPro; IPR000458; Tryp_mucin..
DR Pfam; PF01456; Mucin; 1.
FT NON TER 86
SQ SEQUENCE 86 AA; 8963 MW; 7AD26B22604E36A9 CRC64;

Query Match 3.5%; Score 15; DB 2; Length 86;
Best Local Similarity 100.0%; Pred. No. 5.6e-06;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 321 PPTTTTTTTTTTTT 335
DB 71 PPTTTTTTTTTTTT 85
```

```
RESULT 20
O61058 PRELIMINARY; PRT; 98 AA.
AC O61058;
DT 01-AUG-1998 (TrEMBLrel. 07, Created)
DT 01-AUG-1998 (TrEMBLrel. 07, Last sequence update)
DE Mucin-like protein (Fragment).
GN Name=EMUCt-18;
OS Trypanosoma cruzi.
OC Eukaryota; Euglenozoa; Kinetoplastida; Trypanosomatidae; Trypanosoma.
OX NCBI_TaxID=5693;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=Cl-Brenner;
RX MEDLINE=98225151; PubMed=9556557; DOI=10.1074/jbc.273.18.10843;
RA Di Noia J.M., D'Orso I., Aslund L., Sanchez D.O., Frasch A.C.;
RT "The Trypanosoma cruzi mucin family is transcribed from hundreds of
RL J. Biol. Chem. 273:10843-10850(1998).
DR EMBL; AF036422; AAC14232.1; -.
DR InterPro; IPR000458; Tryp_mucin.
DR Pfam; PF01456; Mucin; 1.
FT NON TER 98
SQ SEQUENCE 98 AA; 10158 MW; B59146BAA3FD9520 CRC64;

Query Match 3.5%; Score 15; DB 2; Length 98;
Best Local Similarity 100.0%; Pred. No. 6.2e-06;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 321 PPTTTTTTTTTTTT 335
DB 71 PPTTTTTTTTTTTT 85

RESULT 21
O61033 PRELIMINARY; PRT; 102 AA.
AC O61033;
DT 01-AUG-1998 (TrEMBLrel. 07, Created)
DT 01-AUG-1998 (TrEMBLrel. 07, Last sequence update)
DE Mucin-like protein (Fragment).
GN Name=EMUCe-11;
OS Trypanosoma cruzi.
OC Eukaryota; Euglenozoa; Kinetoplastida; Trypanosomatidae; Trypanosoma.
OX NCBI_TaxID=5693;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=Cl-Brenner;
RX MEDLINE=98225151; PubMed=9556557; DOI=10.1074/jbc.273.18.10843;
RA Di Noia J.M., D'Orso I., Aslund L., Sanchez D.O., Frasch A.C.;
RT "The Trypanosoma cruzi mucin family is transcribed from hundreds of
RL J. Biol. Chem. 273:10843-10850(1998).
DR EMBL; AF036422; AAC14232.1; -.
DR InterPro; IPR000458; Tryp_mucin.
DR Pfam; PF01456; Mucin; 1.
FT NON TER 102
SQ SEQUENCE 102 AA; 10605 MW; E55212A8D1297E5A CRC64;

Query Match 3.5%; Score 15; DB 2; Length 102;
Best Local Similarity 100.0%; Pred. No. 6.4e-06;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 321 PPTTTTTTTTTTTT 335
DB 44 PPTTTTTTTTTTTT 58

RESULT 22
Q9XWNO PRELIMINARY; PRT; 108 AA.
ID Q9XWNO
```

```
AC Q9XWNO;
DT 01-NOV-1999 (TrEMBLrel. 12, Created)
DT 01-NOV-1999 (TrEMBLrel. 12, Last sequence update)
DT 01-JUN-2003 (TrEMBLrel. 24, Last annotation update)
DE Hypothetical protein Y43F8C.9.
GN ORFNames=Y43F8C.9;
OS Caenorhabditis elegans.
OC Eukaryota; Metazoa; Nematoda; Chromadorea; Rhabditida; Rhabditoidea;
OC Rhabditidae; Peloderinae; Caenorhabditis.
OX NCBI_TaxID=6239;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=Bristol N2;
RX MEDLINE=99069613; PubMed=9851916;
RA none;
RT "Genome sequence of the nematode C.elegans: A platform for
RT investigating biology.";
RL Science 282:2012-2018(1998).
RN [2]
RP SEQUENCE FROM N.A.
RC STRAIN=Bristol N2;
RA Ainscough R.;
RL Submitted (Oct-1998) to the EMBL/GenBank/DBDJ databases.
DR EMBL; AL032637; CAA21621.1; -.
DR PIR; T26880; T26880.
DR WormBase; WBGene00012831; Y43F8C.9.
DR WormPep; Y43F8C.9; CE21907.
KW Hypothetical protein.
SQ SEQUENCE 108 AA; 11733 MW; F72D37C2B7432602 CRC64;

Query Match 3.5%; Score 15; DB 2; Length 108;
Best Local Similarity 100.0%; Pred. No. 6.8e-06;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 321 PPTTTTTTTTTTTT 335
DB 48 PPTTTTTTTTTTTT 62

RESULT 23
O61046 PRELIMINARY; PRT; 115 AA.
AC O61046;
DT 01-AUG-1998 (TrEMBLrel. 07, Created)
DT 01-AUG-1998 (TrEMBLrel. 07, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE Mucin-like protein.
GN Name=EMUCT-7;
OS Trypanosoma cruzi.
OC Eukaryota; Euglenozoa; Kinetoplastida; Trypanosomatidae; Trypanosoma.
OX NCBI_TaxID=5693;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=Cl-Brenner;
RX MEDLINE=98225151; PubMed=9556557; DOI=10.1074/jbc.273.18.10843;
RA Di Noia J.M., D'Orso I., Aslund L., Sanchez D.O., Frasch A.C.;
RT "The Trypanosoma cruzi mucin family is transcribed from hundreds of
RL J. Biol. Chem. 273:10843-10850(1998).
DR EMBL; AF036450; AAC14247.1; -.
DR InterPro; IPR000458; Tryp_mucin.
DR Pfam; PF01456; Mucin; 1.
SQ SEQUENCE 115 AA; 11729 MW; 321826F0FDEDEF0E CRC64;

Query Match 3.5%; Score 15; DB 2; Length 115;
Best Local Similarity 100.0%; Pred. No. 7.1e-06;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 321 PPTTTTTTTTTTTT 335
DB 43 PPTTTTTTTTTTTT 57
```

```
RESULT 24
Q6WAZ9          PRELIMINARY;      PRT;   121 AA.
ID Q6WAZ9
AC Q6WAZ9
DT 05-JUL-2004 (TrEMBLrel. 27, Created)
DT 05-JUL-2004 (TrEMBLrel. 27, Last sequence update)
DT 05-JUL-2004 (TrEMBLrel. 27, Last annotation update)
DE Mucin-like protein.
OS Trypanosoma cruzi.
OC Eukaryota; Euglenozoa; Kinetoplastida; Trypanosomatidae; Trypanosoma.
OX NCBI_TaxID=5693;
RN [1]
SEQUENCE FROM N.A.
RX PubMed=14668015; DOI=10.1016/j.molbiopara.2003.09.006;
RA Campo V., Di Noia J.M., Buscaglia C.A., Agüero F., Sanchez D.O.,
  Frasch A.C.C.;
RT "Differential accumulation of mutations localized in particular
  domains of the mucin genes expressed in the vertebrate host stage of
  Trypanosoma cruzi."
RL Mol. Biochem. Parasitol. 133:81-91(2004).
DR ENBL; AY298908; AAQ74639.1; -.
DR InterPro; IPR000458; Tryp_mucin.
DR Pfam; PF01456; Mucin; 1.
SQ SEQUENCE 121 AA; 12463 MW; 800A0E88DFE3AE59 CRC64;

Query Match          3.5%; Score 15; DB 2; Length 121;
Best Local Similarity 100.0%; Pred. No. 7.4e-06;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 321 PPTTTTTTTTTTTT 335
DB 44 PPTTTTTTTTTTTT 58

RESULT 25
O15774          PRELIMINARY;      PRT;   122 AA.
ID O15774
AC O15774
DT 01-JAN-1998 (TrEMBLrel. 05, Created)
DT 01-JAN-1998 (TrEMBLrel. 05, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE Mucin-like protein (Fragment).
OS Trypanosoma cruzi.
OC Eukaryota; Euglenozoa; Kinetoplastida; Trypanosomatidae; Trypanosoma.
OX NCBI_TaxID=5693;
RN [1]
SEQUENCE FROM N.A.
RC STRAIN=Berkley.
RX MEDLINE=98324409; PubMed=9662032; DOI=10.1016/S0166-6851(98)00025-5;
RA Freitas-Junior L.H., Briones M.R., Schenkman S.;
RT "Two distinct groups of mucin-like genes are differentially expressed
  in the developmental stages of Trypanosoma cruzi."
RL Mol. Biochem. Parasitol. 93:101-114(1998).
DR ENBL; AF027872; AAC48350.1; -.
DR InterPro; IPR000458; Tryp_mucin.
DR Pfam; PF01456; Mucin; 1.
FT NON TER 122 122
SQ SEQUENCE 122 AA; 12500 MW; 47CDEF9BD43814FA CRC64;

Query Match          3.5%; Score 15; DB 2; Length 122;
Best Local Similarity 100.0%; Pred. No. 7.5e-06;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 321 PPTTTTTTTTTTTT 335
DB 42 PPTTTTTTTTTTTT 56

RESULT 26
O61025          PRELIMINARY;      PRT;   125 AA.
ID O61025
AC O61025
DT 01-AUG-1998 (TrEMBLrel. 07, Created)
```

```
DT 01-AUG-1998 (TrEMBLrel. 07, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE Mucin-like protein.
GN Name=EMUCe-9;
OS Trypanosoma cruzi.
OC Eukaryota; Euglenozoa; Kinetoplastida; Trypanosomatidae; Trypanosoma.
OX NCBI_TaxID=5693;
RN [1]
SEQUENCE FROM N.A.
RC STRAIN=Cl-Brenner;
RX MEDLINE=98225151; PubMed=9556557; DOI=10.1074/jbc.273.18.10843;
RA Di Noia J.M., D'Orso I., Aslund L., Sanchez D.O., Frasch A.C.;
RT "The Trypanosoma cruzi mucin family is transcribed from hundreds of
  genes having hypervariable regions."
RL J. Biol. Chem. 273:10843-10850(1998).
DR ENBL; AF036413; AAC14224.1; -.
DR InterPro; IPR000458; Tryp_mucin.
DR Pfam; PF01456; Mucin; 1.
SQ SEQUENCE 125 AA; 12894 MW; 2DF1A14AA29A8604 CRC64;

Query Match          3.5%; Score 15; DB 2; Length 125;
Best Local Similarity 100.0%; Pred. No. 7.7e-06;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 321 PPTTTTTTTTTTTT 335
DB 56 PPTTTTTTTTTTTT 70

RESULT 27
Q962W4          PRELIMINARY;      PRT;   125 AA.
ID Q962W4
AC Q962W4
DT 01-DEC-2001 (TrEMBLrel. 19, Created)
DT 01-DEC-2001 (TrEMBLrel. 19, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE Mucin-like protein MUC-loc6.
OS Trypanosoma cruzi.
OC Eukaryota; Euglenozoa; Kinetoplastida; Trypanosomatidae; Trypanosoma.
OX NCBI_TaxID=5693;
RN [1]
SEQUENCE FROM N.A.
RC STRAIN=Cl-Brenner;
RA Di Noia J.M., Frasch A.C.C.;
RL Submitted (JUL-2001) to the EMBL/GenBank/DBJ databases.
DR ENBL; AF398553; AAK94016.1; -.
DR InterPro; IPR000458; Tryp_mucin.
DR Pfam; PF01456; Mucin; 1.
SQ SEQUENCE 125 AA; 12870 MW; 2189F87FA6C71F07 CRC64;

Query Match          3.5%; Score 15; DB 2; Length 125;
Best Local Similarity 100.0%; Pred. No. 7.7e-06;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 321 PPTTTTTTTTTTTT 335
DB 56 PPTTTTTTTTTTTT 70

RESULT 28
O61021          PRELIMINARY;      PRT;   126 AA.
ID O61021
AC O61021
DT 01-AUG-1998 (TrEMBLrel. 07, Created)
DT 01-MAY-2000 (TrEMBLrel. 13, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE Mucin-like protein.
GN Name=EMUCe-2;
OS Trypanosoma cruzi.
OC Eukaryota; Euglenozoa; Kinetoplastida; Trypanosomatidae; Trypanosoma.
OX NCBI_TaxID=5693;
RN [1]
SEQUENCE FROM N.A.
```

```
RC STRAIN=Cl-Brenner;
RX MEDLINE=98225151; PubMed=9556557; DOI=10.1074/jbc.273.18.10843;
RA Di Noia J.M., D'Orso I., Aslund L., Sanchez D.O., Frasch A.C.;
RT "The Trypanosoma cruzi mucin family is transcribed from hundreds of
RT genes having hypervariable regions.";
RL J. Biol. Chem. 273:10843-10850(1998).
RN [2]
RP SEQUENCE FROM N.A.
RC STRAIN=Cl-Brenner;
RA D'Orso I., Di Noia J.M.;
RL Submitted (JAN-2000) to the EMBL/GenBank/DBJ databases.
DR EMBL; AF036409; AAC14220.2; -.
DR InterPro; IPR000458; Tryp_mucin.
DR Pfam; PF01456; Mucin; 1.
SQ SEQUENCE 126 AA; 13023 MW; F3858008D3C768A1 CRC64;

Query Match 3.5%; Score 15; DB 2; Length 126;
Best Local Similarity 100.0%; Pred. No. 7.7e-06;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 321 PPTTTT TTTT TTTT 335
DB 55 PPTTTT TTTT TTTT 69

RESULT 29
O61056 PRELIMINARY; PRT; 126 AA.
ID O61056 PRELIMINARY; PRT; 126 AA.
AC O61056;
DT 01-AUG-1998 (TrEMBLrel. 07, Created)
DT 01-MAY-2000 (TrEMBLrel. 13, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE Mucin-like protein.
DE Name=EMUCt-15;
OS Trypanosoma cruzi.
OC Eukaryota; Euglenozoa; Kinetoplastida; Trypanosomatidae; Trypanosoma.
OX NCBI_TaxID=5693;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=Cl-Brenner;
RX MEDLINE=98225151; PubMed=9556557; DOI=10.1074/jbc.273.18.10843;
RA Di Noia J.M., D'Orso I., Aslund L., Sanchez D.O., Frasch A.C.;
RT "The Trypanosoma cruzi mucin family is transcribed from hundreds of
RT genes having hypervariable regions.";
RL J. Biol. Chem. 273:10843-10850(1998).
RN [2]
RP SEQUENCE FROM N.A.
RC STRAIN=Cl-Brenner;
RA D'Orso I., Di Noia J.M.;
RL Submitted (JAN-2000) to the EMBL/GenBank/DBJ databases.
DR EMBL; AF036463; AAC14257.2; -.
DR InterPro; IPR000458; Tryp_mucin.
DR Pfam; PF01456; Mucin; 1.
SQ SEQUENCE 126 AA; 13049 MW; F399EC78D3C768A1 CRC64;

Query Match 3.5%; Score 15; DB 2; Length 126;
Best Local Similarity 100.0%; Pred. No. 7.7e-06;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 321 PPTTTT TTTT TTTT 335
DB 55 PPTTTT TTTT TTTT 69

RESULT 30
P90603 PRELIMINARY; PRT; 128 AA.
ID P90603 PRELIMINARY; PRT; 128 AA.
AC P90603;
DT 01-MAY-1997 (TrEMBLrel. 03, Created)
DT 01-MAY-1997 (TrEMBLrel. 03, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE MUC.CL-1.
DE Name=MUC.CL-1;
GN
```

```
OS Trypanosoma cruzi.
OC Eukaryota; Euglenozoa; Kinetoplastida; Trypanosomatidae; Trypanosoma.
OX NCBI_TaxID=5693;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=Cl-Brenner;
RX MEDLINE=97113006; PubMed=8943259; DOI=10.1074/jbc.271.50.32078;
RA Di Noia J.M., Pollevick G.D., Xavier M.T., Previato J.O.,
RA Mendoca-Previato L., Sanchez D.O., Frasch A.C.;
RT "High diversity in mucin genes and mucin molecules in Trypanosoma
RT cruzi.";
RL J. Biol. Chem. 271:32078-32083(1996).
DR EMBL; U62530; AAC47402.1; -.
DR InterPro; IPR000458; Tryp_mucin.
DR Pfam; PF01456; Mucin; 1.
SQ SEQUENCE 128 AA; 13207 MW; 30ACB7C3F8B633B4 CRC64;

Query Match 3.5%; Score 15; DB 2; Length 128;
Best Local Similarity 100.0%; Pred. No. 7.8e-06;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 321 PPTTTT TTTT TTTT 335
DB 55 PPTTTT TTTT TTTT 69

RESULT 31
O61037 PRELIMINARY; PRT; 139 AA.
ID O61037 PRELIMINARY; PRT; 139 AA.
AC O61037;
DT 01-AUG-1998 (TrEMBLrel. 07, Created)
DT 01-AUG-1998 (TrEMBLrel. 07, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE Mucin-like protein.
DE Name=EMUCe-37p20;
GN Trypanosoma cruzi.
OS Trypanosoma cruzi.
OC Eukaryota; Euglenozoa; Kinetoplastida; Trypanosomatidae; Trypanosoma.
OX NCBI_TaxID=5693;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=Cl-Brenner;
RX MEDLINE=98225151; PubMed=9556557; DOI=10.1074/jbc.273.18.10843;
RA Di Noia J.M., D'Orso I., Aslund L., Sanchez D.O., Frasch A.C.;
RT "The Trypanosoma cruzi mucin family is transcribed from hundreds of
RT genes having hypervariable regions.";
RL J. Biol. Chem. 273:10843-10850(1998).
DR EMBL; AF036427; AAC14349.1; -.
DR InterPro; IPR000458; Tryp_mucin.
DR Pfam; PF01456; Mucin; 1.
SQ SEQUENCE 139 AA; 14311 MW; 9236BB31B8599287 CRC64;

Query Match 3.5%; Score 15; DB 2; Length 139;
Best Local Similarity 100.0%; Pred. No. 8.4e-06;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 321 PPTTTT TTTT TTTT 335
DB 70 PPTTTT TTTT TTTT 84

RESULT 32
P90601 PRELIMINARY; PRT; 139 AA.
ID P90601 PRELIMINARY; PRT; 139 AA.
AC P90601;
DT 01-MAY-1997 (TrEMBLrel. 03, Created)
DT 01-MAY-1997 (TrEMBLrel. 03, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE MUC.Y-1 protein.
DE Name=MUC.Y-1;
GN Trypanosoma cruzi.
OS Trypanosoma cruzi.
OC Eukaryota; Euglenozoa; Kinetoplastida; Trypanosomatidae; Trypanosoma.
OX NCBI_TaxID=5693;
RN [1]
```

RP SEQUENCE FROM
RC STRAIN=Berk
RX MEDLINE=97111108; PubMed=8943259; DOI=10.1074/jbc.271.50.32078;
RA Di Nola J.M., Pollevick G.D., Xavier M.T., Previano J.O.,
RA Mendoca-Previano L., Sanchez D.O., Frasch A.C.;
RT "High diversity in mucin genes and mucin molecules in Trypanosoma
RT cruzi.";
RL J. Biol. Chem. 271:32078-32083(1996).
DR ENBL; U59482; AAC47399.1; -;
DR InterPro; IPR000458; Tryp_mucin.
DR Pfam; PF01456; Mucin; 1.
SQ SEQUENCE 139 AA; 14395 MW; D7DCBCE2FF8A26B CRC64;

Query Match 3.5%; Score 15; DB 2; Length 139;
Best Local Similarity 100.0%; Pred. No. 8.4e-06;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 321 PPTTTTTTTTTTTTTT 335
Db 68 PPTTTTTTTTTTTTTT 82

RESULT 33
Q6WAZ8 PRELIMINARY; PRT; 139 AA.
AC Q6WAZ8
DT 05-JUL-2004 (TrEMBLrel. 27, Created)
DT 05-JUL-2004 (TrEMBLrel. 27, Last sequence update)
DT 05-JUL-2004 (TrEMBLrel. 27, Last annotation update)
DE Mucin-like protein.
OS Trypanosoma cruzi.
OC Eukaryota; Euglenozoa; Kinetoplastida; Trypanosomatidae; Trypanosoma.
OX NCBI_TaxID=5693;
RN [1]
RP SEQUENCE FROM N.A.
RX PubMed=14668015; DOI=10.1016/j.molbiopara.2003.09.006;
RA Campo V., Di Nola J.M., Buscaglia C.A., Aguero F., Sanchez D.O.,
RA Frasch A.C.C.;
RT "Differential accumulation of mutations localized in particular
RT domains of the mucin genes expressed in the vertebrate host stage of
RT Trypanosoma cruzi.";
RL Mol. Biochem. Parasitol. 133:81-91(2004).
DR ENBL; AY298908; AA074640.1; -;
DR InterPro; IPR000458; Tryp_mucin.
DR Pfam; PF01456; Mucin; 1.
SQ SEQUENCE 139 AA; 14277 MW; 79A799908014DD21 CRC64;

Query Match 3.5%; Score 15; DB 2; Length 139;
Best Local Similarity 100.0%; Pred. No. 8.4e-06;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 321 PPTTTTTTTTTTTTTT 335
Db 71 PPTTTTTTTTTTTTTT 85

RESULT 34
Q962W5 PRELIMINARY; PRT; 140 AA.
AC Q962W5
DT 01-DEC-2001 (TrEMBLrel. 19, Created)
DT 01-DEC-2001 (TrEMBLrel. 19, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE Mucin-like protein MUC-loc5.
OS Trypanosoma cruzi.
OC Eukaryota; Euglenozoa; Kinetoplastida; Trypanosomatidae; Trypanosoma.
OX NCBI_TaxID=5693;
RN [1]
RP SEQUENCE FROM N.A.
RX STRAIN=CJ-Brenner;
RA Di Nola J.M., Frasch A.C.C.;
RL Submitted (JUL-2001) to the ENBL/GenBank/DBJ databases.
DR ENBL; AF398552; AAK94015.1; -;

DR InterPro; IPR000458; Tryp_mucin.
DR Pfam; PF01456; Mucin; 1.
SQ SEQUENCE 140 AA; 14343 MW; 5CC154418F2A58CA CRC64;

Query Match 3.5%; Score 15; DB 2; Length 140;
Best Local Similarity 100.0%; Pred. No. 8.4e-06;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 321 PPTTTTTTTTTTTTTT 335
Db 72 PPTTTTTTTTTTTTTT 86

RESULT 35
O15776 PRELIMINARY; PRT; 143 AA.
AC O15776
DT 01-JAN-1998 (TrEMBLrel. 05, Created)
DT 01-JAN-1998 (TrEMBLrel. 05, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE Mucin-like protein (Fragment).
OS Trypanosoma cruzi.
OC Eukaryota; Euglenozoa; Kinetoplastida; Trypanosomatidae; Trypanosoma.
OX NCBI_TaxID=5693;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=Berkley;
RX MEDLINE=98324409; PubMed=9662032; DOI=10.1016/S0166-6851(98)00025-5;
RA Freitas-Junior L.H., Briones M.R., Schenkman S.;
RT "Two distinct groups of mucin-like genes are differentially expressed
RT in the developmental stages of Trypanosoma cruzi.";
RL Mol. Biochem. Parasitol. 93:101-114(1998).
DR ENBL; AF027874; AAC48352.1; -;
DR InterPro; IPR000458; Tryp_mucin.
DR Pfam; PF01456; Mucin; 1.
FT NON TER 143
SQ SEQUENCE 143 AA; 14610 MW; 6AB6E7B7FA85F59B CRC64;

Query Match 3.5%; Score 15; DB 2; Length 143;
Best Local Similarity 100.0%; Pred. No. 8.6e-06;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 321 PPTTTTTTTTTTTTTT 335
Db 74 PPTTTTTTTTTTTTTT 88

RESULT 36
O61019 PRELIMINARY; PRT; 148 AA.
AC O61019
DT 01-AUG-1998 (TrEMBLrel. 07, Created)
DT 01-AUG-1998 (TrEMBLrel. 07, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE Mucin-like protein.
GN Name=EMUCe-1;
OS Trypanosoma cruzi.
OC Eukaryota; Euglenozoa; Kinetoplastida; Trypanosomatidae; Trypanosoma.
OX NCBI_TaxID=5693;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=CJ-Brenner;
RX MEDLINE=98225151; PubMed=9556557; DOI=10.1074/jbc.273.18.10843;
RA Di Nola J.M., Aslund L., Sanchez D.O., Frasch A.C.;
RT "The Trypanosoma cruzi mucin family is transcribed from hundreds of
RT genes having hypervariable regions";
RL J. Biol. Chem. 273:10843-10850(1998).
DR ENBL; AF036407; AAC14218.1; -;
DR InterPro; IPR000458; Tryp_mucin.
DR Pfam; PF01456; Mucin; 1.
SQ SEQUENCE 148 AA; 15212 MW; ABF2E02CF13EA059 CRC64;

Query Match 3.5%; Score 15; DB 2; Length 148;

| | | |
|-----------------------|------------------|-------------------------|
| Best Local Similarity | 100.0%; | Pred. No. 8.8e-06; |
| Matches | 15; Conservative | 0; Mismatches 0; Indels |
| | | 0; Gaps 0; |

Qy 321 pTTTTTTTTTTTTTT 335
Db 68 pTTTTTTTTTTTTTT 82

RESULT 37

| | | | | |
|----|---|---|------|---------|
| ID | Q6WB00 | PRELIMINARY; | PRT; | 148 AA. |
| AC | Q6WB00; | | | |
| CD | 05-JUL-2004 | (TREMBLrel. 27, Created) | | |
| DT | 05-JUL-2004 | (TREMBLrel. 27, Last sequence update) | | |
| DT | 05-JUL-2004 | (TREMBLrel. 27, Last annotation update) | | |
| DE | Mucin-like protein. | | | |
| DE | Ocuypanosoma cruzi. | | | |
| OC | Eukaryota; Euglenozoa; Kinetoplastida; Trypanosomatidae; Trypanosoma. | | | |
| OX | NCBI_Taxid=5693; | | | |
| LN | [1] | | | |
| RP | SEQUENCE FROM N.A. | | | |
| RX | PubMed=14668015; DOI=10.1016/j.molbiopara.2003.09.006; | | | |
| RA | Campo V., Di Noia J.M., Buscaglia C.A., Aguiro F., Sanchez D.O., | | | |
| RA | Frascch A.C.C.; | | | |
| RT | "Differential accumulation of mutations localized in particular | | | |
| RT | domains of the mucin genes expressed in the vertebrate host stage of | | | |
| RT | Trypanosoma cruzi." | | | |
| RL | Mol. Biochem. Parasitol. 133:81-91(2004). | | | |
| DR | EMBL; AY298908; AAQ74638.1; - | | | |
| DR | InterPro; IPR000458; Tryp_mucin. | | | |
| DR | Pfam; PF01456; Mucin; 1. | | | |
| DR | SEQUENCE 148 AA; 15203 MW; | | | |
| DR | C7F2E02CF13554E6 CRC64; | | | |

```
Query Match      3.5%; Score 15; DB 2; Length 148;
Best Local Similarity 100.0%; Pred.No. 8.8e-06;
Matches 15; Conservative 0; Mismatches 0; Indels
```

Qy 321 PPTTTTTTTTTTTTTT 335
Db 68 PPTTTTTTTTTTTTTT 82

RESULT 38

| | | | | |
|-------------|---|---|-----------|-----------------------------------|
| Q25334 | Q25334 | PRELIMINARY; | PRT; | 327 AA. |
| ID | Q25334 | | | |
| AC | Q25334; | | | |
| DT | 01-NOV-1996 | (TREMBLrel. 01, Created) | | |
| DT | 01-NOV-1996 | (TREMBLrel. 01, Last sequence update) | | |
| DT | 01-MAR-2004 | (TREMBLrel. 26, Last annotation update) | | |
| DE | Surface antigen P2 (Fragment). | | | |
| OS | Leishmania major. | | | |
| OC | Eukaryota; Euglenozoa; Kinetoplastida; Trypanosomatidae; Leishmania. | | | |
| QC | NCBI_TaxID=5664; | | | |
| RN | [1] | | | |
| RP | SEQUENCE FROM N.A. | | | |
| RC | STRAIN=V121; | | | |
| RA | MEDLINE=92105105; | PubMed=1761547; | | |
| RX | Murray P.J., Spichill T.W.; | | | |
| RT | "Variants of a Leishmania surface antigen derived from a multigenic family."; | | | |
| RL | J. Biol. Chem. 266:24477-24484(1991). | | | |
| DR | EMBL; X571735; CAA40414.1; -; | | | |
| DR | PIR; S20074. | | | |
| DR | InterPro; IPR009030; | Grow_fac_recept. | | |
| DR | InterPro; IPR006210; | IEGF. | | |
| DR | InterPro; IPR001611; | LRR. | | |
| DR | InterPro; IPR007090; | LRR_plant. | | |
| DR | Pfam; PF00560; | LRR 1, 3. | | |
| DR | SMART; SM00181; | EGF; 1. | | |
| FT | NON_TER | 1 | | |
| SQ | SEQUENCE | 327 AA; | 34229 MW; | 2571B35B6577E715 CRC64; |
| Query Match | | | | 3.5%; Score 15; DB 2; Length 327; |

| Query Match | 3.5% | Score 15; | DB 2; | Length 327; |
|-------------|------|-----------|-------|-------------|
|-------------|------|-----------|-------|-------------|

Best Local Similarity 100.0%; Pred. No. 1.7e-05;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 321 pTTTTTTTTTTTTT 335
| | | | |
pb 183 pTTTTTTTTTTTTTTT 197

RESULT 39

```

086A81
ID Q86A81 PRELIMINARY; PRT; 648 AA.
AC Q86A81;
DT 01-JUN-2003 (TrEMBLrel. 24, Created)
DT 01-JUN-2003 (TrEMBLrel. 24, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE Similar to Mus musculus (Mouse). 12 days embryo head cDNA, RIKEN full-
DE length enriched library. clone:300008H23 product:hypothetical Acyl-
DE CoA dehydrogenase/Glutamic acid-rich region containing protein, full
DE insert sequence.
OS Dictyostelium discoideum (Slime mold).
OC Eukaryota; Mycetozoa; Dictyosteliida; Dictyostelium.
ON NCBI_TaxID=44689;
RX [1]
RP SEQUENCE FROM N.A.
RC STRAIN=AX4;
RX MEDLINE=22092622; PubMed=12097910; DOI=10.1038/nature00847;
RA Gloeckner G., Eichinger L., Safranski K., Pachebat J., Dear P.,
RA Lehmann R., Baumgart C., Parra G., April J.F., Guigo R., Kumpf K.,
RA Tunggal B., Cox E., Quail M.A., Platzer M., Rosenthal A., Noegel A.A.,
RT "Sequence and analysis of chromosome 2 of Dictyostelium discoideum." ;
RL Nature 418:79-85(2002).
RP [2]
RN SEQUENCE FROM N.A.
RC STRAIN=AX4;
RC Baumgart C.;
RA Submitted (MAR-2003) to the EMBL/GenBank/DBJ databases.
RL EMBL; AC116986; RA051856.1; -
DR DictyBase; DDB0168226; JC2V2_0_00892.
DR InterPro; IPR008654; IWS1_C; 1.
DR Pfam; PF05909; IWS1_C; 1.
KW Hypothetical protein.
SQ SEQUENCE 648 AA; 73372 MW; 2879FE40FCD76D3E CRC64;

```

Query Match 3.5%; Score 15; DB 2; Length 648;
Best Local Similarity 100.0%; Pred. No. 3.1e-05;
Matches 15: Conservative 0; Mismatches 0; Indels

Qy 320 PPTTTTTTTTTT 334
 |||||TTTTTTTTT
 pb 130 PPTTTTTTTTTT 144

RESULT 40

| | | |
|--------|--|---------------|
| Q86AGO | PRELIMINARY; | PRT; 1015 AA. |
| ID | Q86AGO | |
| AC | Q86AGO; | |
| DT | 01-JUN-2003 (TReMBLrel. 24, Created) | |
| DT | 01-JUN-2003 (TReMBLrel. 24, Last sequence update) | |
| DT | 01-MAR-2004 (TReMBLrel. 26, Last annotation update) | |
| DT | Similar to Dictyostelium discoideum (Slime mold). Histidine kinase DkH6. | |
| DE | Dictyostelium discoideum (Slime mold). | |
| OS | Eukaryota; Mycetozoa; Dictyostellida; Dictyostelium. | |
| OX | NCBI_TaxID=44689; | |
| RN | [1] | |
| RP | SEQUENCE FROM N.A. | |
| RC | STRAIN=AX4. | |
| RC | MEDLINE=22092622; PubMed=12097910; DOI=10.1038/nature00847; | |
| RA | Gloeckner G., Eichinger L., Szafranski K., Pachebat J., Dear P., | |
| RA | Lehmann R., Baumgart C., Parra G., April J.F., Guigo R., Kumpf K., | |
| RA | Tunggal B., Cox E., Quail M.A., Platzer M., Rosenthal A., Noegel A.A., | |
| RT | "Sequence and analysis of chromosome 2 of Dictyostelium discoideum." | |
| RL | Nature 418:79-85(2002). | |

```

[2]
RN  SEQUENCE FROM N.A.
RP  STRAIN=AX4;
RC  Baumgart C.;
RL  Submitted (MAR-2003) to the EMBL/GenBank/DBJ databases.
DR  EMBL; AC115594; AA051537.1; -
DR  GO; GO:0016301; F:Kinase activity; IEA.
KW  Kinase.
SQ  SEQUENCE 1015 AA; 116816 MW; 58CF6693543381A8 CRC64;

Query Match 3.5%; Score 15; DB 2; Length 1015;
Best Local Similarity 100.0%; Pred. No. 4.6e-05;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 320 PPPTTTTTTTTTTTT 334
Db 552 PPPTTTTTTTTTTTT 566

RESULT 41
Q6TUI3
ID Q6TUI3 PRELIMINARY; PRT; 58 AA.
AC Q6TUI3;
DT 05-JUL-2004 (TrEMBLrel. 27, Created)
DT 05-JUL-2004 (TrEMBLrel. 27, Last sequence update)
DT 05-JUL-2004 (TrEMBLrel. 27, Last annotation update)
DE LRGT00061.
OS Rattus norvegicus (Rat).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.
OX NCBI_TaxID=10116;
[1]
RN  SEQUENCE FROM N.A.
RP  STRAIN=Sprague-Dawley;
RA  Xu C.S., Chang C.F., Han H.P., Wang G.P., Chai L.Q., Yuan J.Y.,
RA  Yang K.J., Zhao L.F., Ma H., Wang L., Wang S.F., Xing X.K., Shen G.M.,
RA  Shi J.B., Rahman S., Wang Q.N., Zhang J.B.;
RL  Submitted (SEP-2003) to the EMBL/GenBank/DBJ databases.
DR  EMBL; AY387047; AAQ91017.1; -
DR  InterPro; IPR000458; Tryp_mucin.
SQ  SEQUENCE 58 AA; 6466 MW; DE36599EB327F47 CRC64;

Query Match 3.3%; Score 14; DB 2; Length 58;
Best Local Similarity 100.0%; Pred. No. 3.7e-05;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 323 TTTTTTTTTTTTTT 336
Db 34 TTTTTTTTTTTT 47

RESULT 42
O61050
ID O61050 PRELIMINARY; PRT; 107 AA.
AC O61050;
DT 01-AUG-1998 (TrEMBLrel. 07, Created)
DT 01-AUG-1998 (TrEMBLrel. 07, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE Mucin-like protein (Fragment).
GN Name=EMUC-9;
OS Trypanosoma cruzi.
OC Eukaryota; Euglenozoa; Kinetoplastida; Trypanosomatidae; Trypanosoma.
OX NCBI_TaxID=5693;
[1]
RN  SEQUENCE FROM N.A.
RP  STRAIN=Cl-Brenner;
RX  MEDLINE=96225151; PubMed=955557; DOI=10.1074/jbc.273.18.10843;
RA  Di Noia J.M., D'Orso I., Aslund L., Sanchez D.O., Frasch A.C.;
RT  "The Trypanosoma cruzi mucin family is transcribed from hundreds of
RT  genes having hypervariable regions.";
RL  J. Biol. Chem. 273:10843-10850(1998).
DR  EMBL; AF036454; AAC14251.1; -
DR  InterPro; IPR000458; Tryp_mucin.
DR  Pfam; PF01456; Mucin; 1.

FT  NON TER 107 107
SQ  SEQUENCE 107 AA; 10986 MW; 26E2947FD6EB06D2 CRC64;

Query Match 3.3%; Score 14; DB 2; Length 107;
Best Local Similarity 100.0%; Pred. No. 6.2e-05;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 321 PPPTTTTTTTTTTTT 334
Db 53 PPPTTTTTTTTTTTT 66

RESULT 43
Q962W6
ID Q962W6 PRELIMINARY; PRT; 216 AA.
AC Q962W6;
DT 01-DEC-2001 (TrEMBLrel. 19, Created)
DT 01-DEC-2001 (TrEMBLrel. 19, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE Mucin-like protein MUC-loc2.
OS Trypanosoma cruzi.
OC Eukaryota; Euglenozoa; Kinetoplastida; Trypanosomatidae; Trypanosoma.
OX NCBI_TaxID=5693;
[1]
RN  SEQUENCE FROM N.A.
RP  STRAIN=Cl-Brenner;
RA  Di Noia J.M., Frasch A.C.C.;
RL  Submitted (JUL-2001) to the EMBL/GenBank/DBJ databases.
DR  EMBL; AF398551; AAK94014.1; -
DR  InterPro; IPR000458; Tryp_mucin.
DR  Pfam; PF01456; Mucin; 1.
DR  InterPro; IPR000458; Tryp_mucin.
SQ  SEQUENCE 216 AA; 21815 MW; 01C85738541BB6C6 CRC64;

Query Match 3.3%; Score 14; DB 2; Length 216;
Best Local Similarity 100.0%; Pred. No. 0.00011;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 322 PTTTTTTTTTTTTTTT 335
Db 158 PTTTTTTTTTTTTTTT 171

RESULT 44
YQOB CAEL
ID YQOB CAEL STANDARD; PRT; 304 AA.
AC YQOB CAEL;
DT 01-NOV-1997 (Rel. 35, Created)
DT 01-NOV-1997 (Rel. 35, Last sequence update)
DT 25-OCT-2004 (Rel. 45, Last annotation update)
DE Hypothetical protein BEED8.11 in chromosome II precursor.
GN ORFNames=BEED8.11;
OS Caenorhabditis elegans.
OC Eukaryota; Metazoa; Nematoda; Chromadorea; Rhabditida; Rhabditoidea;
OC Rhabditidae; Peloderinae; Caenorhabditis.
OX NCBI_TaxID=6239;
[1]
RN  SEQUENCE FROM N.A.
RP  STRAIN=Bristol N2;
RX  MEDLINE=99069613; PubMed=9851916;
RG  The C. elegans sequencing consortium;
RT  "Genome sequence of the nematode C. elegans: a platform for
RT  investigating biology.";
RL  Science 282:2012-2018(1998).
CC  -1- SIMILARITY: Some, to C.elegans R13F6.2 and R13F6.8.
-----
CC  This SWISS-PROT entry is copyright. It is produced through a collaboration
CC  between the Swiss Institute of Bioinformatics and the EMBL outstation -
CC  the European Bioinformatics Institute. There are no restrictions on its
CC  use by non-profit institutions as long as its content is in no way
CC  modified and this statement is not removed. Usage by and for commercial
CC  entities requires a license agreement (See http://www.isb-sib.ch/announce/
CC  or send an email to license@isb-sib.ch).
-----

```

Gibbs R.A., Myers E.W., Rubin G.M., Venter J.C.;

"The genome sequence of *Drosophila melanogaster*."

Science 287:2185-2195(2000).

[2]

SEQUENCE FROM N.A.

MEDLINE=22426065; PubMed=12537568;

Celniker S.E., Wheeler D.A., Krommiller B., Carlson J.W., Halpern A., Patel S., Adams M., Champagne M., Dugan S.P., Frise E., Hodgson A., George R.A., Haskins R.A., Laverty T., Muzny D.M., Nelson C.R., Pacle J.M., Park S., Pfeiffer B.D., Richards S., Sodergren E.J., Swirskas R., Tabor P.E., Wan K., Stapleton M., Sutton G.G., Venter C., Weinstock G., Scherer S.E., Myers E.W., Gibbs R.A., Rubin G.M.;

"Finishing a whole-genome shotgun: Release 3 of the *Drosophila melanogaster* euchromatic genome sequence."

Genome Biol. 3:RESEARCH0079-RESEARCH0079(2002).

[3]

SEQUENCE FROM N.A.

MEDLINE=22426070; PubMed=12537573;

Kaminker J.S., Bergman C.M., Krommiller B., Carlson J., Swirskas R., Patel S., Frise E., Wheeler D.A., Lewis S.E., Rubin G.M., Ashburner M., Celniker S.E.;

"The transposable elements of the *Drosophila melanogaster* euchromatin: a genomics perspective."

Genome Biol. 3:RESEARCH0084-RSEARCH0084(2002).

[4]

SEQUENCE FROM N.A.

MEDLINE=22426069; PubMed=12537572;

Misra S., Crosby M.A., Mungall C.J., Matthews B.B., Campbell K.S., Hradecky P., Huang Y., Kaminker J.S., Millburn G.H., Prochnik S.E., Smith C.D., Tupy J.L., Whitfield E.J., Bayraktaroglu L., Berman B.P., Battencourt B.R., Celniker S.E., de Grey A.D., Drysdale R.A., Harris N.L., Richter J., Russo S., Schroeder A.J., Shu S.Q., Stapleton M., Yamada C., Ashburner M., Gelbart W.M., Rubin G.M., Lewis S.E.;

"Annotation of the *Drosophila melanogaster* euchromatic genome: a systematic review."

Genome Biol. 3:RESEARCH0083-RESEARCH0083(2002).

[5]

SEQUENCE FROM N.A.

FlyBase;

Submitted (SEP-2002) to the EMBL/GenBank/DBJ databases.

[6]

SEQUENCE FROM N.A.

FlyBase;

Submitted (MAR-2004) to the EMBL/GenBank/DBJ databases.

EMBL; AS003751; RAN14054.1; -

FlyBase; Fggn0051439; CG31439.

GO; GO:0005576; C:extracellular; IEA.

GO; GO:0008061; P:chitin binding; IEA.

GO; GO:0006030; P:chitin metabolism; IEA.

InterPro; IPR002557; Chitin bind PerA.

InterPro; IPR002125; dCMP/cyt_deam.

Pfam; PF01607; CEM 14; 1.

SMART; SM00494; CHBD2; 1.

PROSITE; PS00940; CHIT BIND II; 1.

PROSITE; PS00903; CHIT DCM DEAMINASES; UNKNOWN 1.

SEQUENCE 341 AA; 38627 NW; A935A06377895A15 CRC64;

Query Match 3.3%; Score 14; DB 2; Length 341;

Best Local Similarity 100.0%; Pred.No. 0.00017;

Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps

QY 322 PTTTPTTTTTTTTTTTT 335

DB 170 PTTTPTTTTTTTTTTTT 183

RESULT 46

Q7Q1R0 PRELIMINARY; PRT; 350 AA.

AC Q7Q1R0; ID Q7Q1R0

DT 01-MAR-2004 (TrEMBLrel. 26, Created)

DT 01-MAR-2004 (TrEMBLrel. 26, Last sequence update)


```

DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE AGCP8129 (Fragment).
GN Name=agCG53193; ORFNames=ENSANGG00000007781;
OS Anopheles gambiae str. PEST.
OC Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;
OC Neoptera; Endopterygota; Diptera; Nematocera; Culicoidea; Anopheles.
OX NCBI_TaxID=180454;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=PEST;
RA Anopheles Genome Sequencing Consortium;
RL Submitted (MAR-2002) to the EMBL/GenBank/DBJ databases.
CC -!- CAUTION: The sequence shown here is derived from an
CC EMBL/GenBank/DBJ whole genome shotgun (WGS) entry which is
CC preliminary data.
DR EMBL; AAAB01008980; EAA14126.1; -.
DR GO; GO:0016020; C:membrane; IEA.
DR InterPro; IPR002000; Lamp.
DR PRINTS; PR00336; LYSASSOCTDMP.
DR PROSITE; PS00310; LAMP_1; UNKNOWN_1.
FT NON_TER 1
SQ SEQUENCE 350 AA; 37565 MW; F4765CEF710FA9A0 CRC64;

Query Match 3.3%; Score 14; DB 2; Length 350;
Best Local Similarity 100.0%; Pred. No. 0.00017;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 322 PTTTTTTTTTTTTT 335
Db 79 PTTTTTTTTTTTTT 92

RESULT 47
Q7P221 ID Q7P221 PRELIMINARY; PRT; 356 AA.
AC Q7P221
DT 01-MAR-2004 (TrEMBLrel. 26, Created)
DT 01-MAR-2004 (TrEMBLrel. 26, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE AGCP9900 (Fragment).
GN Name=agCG52059; ORFNames=ENSANGG00000015451;
OS Anopheles gambiae str. PEST.
OC Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;
OC Neoptera; Endopterygota; Diptera; Nematocera; Culicoidea; Anopheles.
OX NCBI_TaxID=180454;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=PEST;
RA Anopheles Genome Sequencing Consortium;
RL Submitted (MAR-2002) to the EMBL/GenBank/DBJ databases.
CC -!- CAUTION: The sequence shown here is derived from an
CC EMBL/GenBank/DBJ whole genome shotgun (WGS) entry which is
CC preliminary data.
DR EMBL; AAAB01008986; EAA00798.1; -.
FT NON_TER 1
FT NON_TER 356
SQ SEQUENCE 356 AA; 39404 MW; C51B095A700DEC22 CRC64;

Query Match 3.3%; Score 14; DB 2; Length 356;
Best Local Similarity 100.0%; Pred. No. 0.00017;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 322 PTTTTTTTTTTTTT 335
Db 316 PTTTTTTTTTTTTT 329

RESULT 48
Q7S2P4 ID Q7S2P4 PRELIMINARY; PRT; 364 AA.
AC Q7S2P4
DT 01-MAR-2004 (TrEMBLrel. 26, Created)
DT 01-MAR-2004 (TrEMBLrel. 26, Last sequence update)

```

```

DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE Hypothetical protein.
GN Name=NCU09343.1;
OS Neurospora crassa.
OC Eukaryota; Fungi; Ascomycota; Pezizomycotina; Sordariomycetes;
OC Sordariomycetidae; Sordariales; Sordariaceae; Neurospora.
OX NCBI_TaxID=5141;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=OR74A;
RA Galagan J.E., Calvo S.E., Borkovich K.A., Selker E.U., Read N.D.,
RA Jaffe D., FitzHugh W., Ma L.-J., Smirnov S., Purcell S., Rehman B.,
RA Elkins T., Engels R., Wang S., Nielsen C.B., Butler J., Endrizzi M.,
RA Qui D., Iankiev P., Pedersen D., Nelson M., Washburne M.,
RA Selitrenikoff C.P., Kinsey J.A., Braun E.L., Zelter A., Schulte U.,
RA Kothe G.O., Jedd G., Mewes W., Staben C., Marcotte E., Greenberg D.,
RA Roy A., Foley K., Naylor J., Thomann N., Barrett R., Gnarr S.,
RA Kamal M., Kamvysselis M., Mauceli E., Bielek C., Rudd S., Frisman D.,
RA Krystofova S., Rasmussen C., Metznerberg R.L., Perkins D.D., Kroken S.,
RA Cogoni C., Macino G., Catchside D., Li W., Pratt R.J., Osmari S.A.,
RA Desouza C.C., Glass L., Orbach M.J., Berglund J., Voelker R.,
RA Yarden O., Plamann M., Seiler S., Dunlap J., Radford A., Aramayo R.,
RA Natvig D.O., Alex L.A., Mannhaupt G., Ebbole D.J., Freitag M.,
RA Paulsen I., Sachs M.S., Lander E.S., Nusbaum C., Birren B.,
RT "The Genome Sequence of the Filamentous Fungus Neurospora crassa.";
RL Nature 0:0-0(2003).
CC -!- CAUTION: The sequence shown here is derived from an
CC EMBL/GenBank/DBJ whole genome shotgun (WGS) entry which is
CC preliminary data.
DR EMBL; AABX01000420; EAA29686.1; -.
DR InterPro; IPR008547; DUF829.
DR Pfam; PF05705; DUF829; 1.
KW Hypothetical protein.
SQ SEQUENCE 364 AA; 40946 MW; EC1DF588FE543738 CRC64;

Query Match 3.3%; Score 14; DB 2; Length 364;
Best Local Similarity 100.0%; Pred. No. 0.00018;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 322 PTTTTTTTTTTTTT 335
Db 38 PTTTTTTTTTTTTT 51

RESULT 49
Q869R5 ID Q869R5 PRELIMINARY; PRT; 365 AA.
AC Q869R5
DT 01-JUN-2003 (TrEMBLrel. 24, Created)
DT 01-JUN-2003 (TrEMBLrel. 24, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE Similar to Dictyostelium discoideum (Slime mold). Histidine
DE kinase.
OS Dictyostelium discoideum (Slime mold).
OC Eukaryota; Mycetozoa; Dictyosteliida; Dictyostelium.
OX NCBI_TaxID=44689;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=AX4;
RX MEDLINE=22092622; PubMed=12097910; DOI=10.1038/nature00847;
RA Gloeckner G., Eichinger L., Szafranski K., Pachbat J., Dear P.,
RA Lehmann R., Baumgart C., Parra G., April J.F., Guigo R., Kumpf K.,
RA Tunggal B., Cox E., Quail M.A., Platzer M., Rosenthal A., Noegel A.A.;
RT "Sequence and analysis of chromosome 2 of Dictyostelium discoideum.";
RL Nature 418:79-85(2002).
RN [2]
RP SEQUENCE FROM N.A.
RC STRAIN=AX4;
RA Baumgart C.;
RL Submitted (MAR-2003) to the EMBL/GenBank/DBJ databases.
DR EMBL; ACL16957; AAC52509.1; -.
DR GO; GO:0016301; F:kinase activity; IEA.
KW Kinase.

```

```
SQ SEQUENCE 365 AA; 39409 MW; 132DEB0383959196 CRC64;
Query Match 3.3%; Score 14; DB 2; Length 365;
Best Local Similarity 100.0%; Pred. No. 0.00018;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 322 PTTTTTTTTTTTTT 335
Db 266 PTTTTTTTTTTTTT 279

RESULT 50
Q70956
ID Q70956 PRELIMINARY; PRT; 445 AA.
AC Q70956;
DT 01-MAR-2004 (T-EMBLrel. 26, Created)
DT 01-MAR-2004 (T-EMBLrel. 26, Last sequence update)
DT 01-MAR-2004 (T-EMBLrel. 26, Last annotation update)
DE AGCP4397 (Fragment)
GN Names=agCG50324; ORFNames=ENSANGG00000010153;
OS Anopheles gambiae str. PEST.
OC Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;
OC Neoptera; Endopterygota; Diptera; Nematocera; Culicoidea; Anopheles.
OX NCBI_TaxID=180454;
RN SEQUENCE FROM N.A.
RC STRAIN=PEST;
RA Anopheles Genome Sequencing Consortium;
RL Submitted (MAR-2002) to the EMBL/GenBank/DBJ databases.
CC -1- SIMILARITY: Belongs to peptidase family S1.
CC -1- CAUTION: The sequence shown here is derived from an
CC EMBL/GenBank/DBJ whole genome shotgun (WGS) entry which is
CC preliminary data.
DR ENBL; AABA01008905; EAA09700.1; -.
DR HSP; P08709; 13BU.
DR GO; GO:0004263; F:chymotrypsin activity; IEA.
DR GO; GO:0008233; F:peptidase activity; IEA.
DR GO; GO:0004295; F:trypsin activity; IEA.
DR GO; GO:0006508; F:proteolysis and peptidolysis; IEA.
DR InterPro; IPR001254; Peptidase S1.
DR InterPro; IPR001314; Peptidase_S1A.
DR InterPro; IPR009003; Pept_Ser_Cys.
DR Pfam; PF00089; Trypsin; 1.
DR PRINTS; PR00722; CHYMOTRYPSIN.
DR PROSITE; PS00240; TRYPSIN_DOM; 1.
DR PROSITE; PS00134; TRYPSIN_HIS; UNKNOWN_1.
KW Hydrolase; Protease; Serine protease.
FT NON_TER 1
FT SEQUENCE 445 AA; 48897 MW; 48A34474F5414364 CRC64;
Query Match 3.3%; Score 14; DB 2; Length 445;
Best Local Similarity 100.0%; Pred. No. 0.00021;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 322 PTTTTTTTTTTTTT 335
Db 125 PTTTTTTTTTTTTT 138

RESULT 51
WR33 ARATH
ID WR33 ARATH STANDARD; PRT; 512 AA.
AC Q8S8P5;
DT 10-OCT-2003 (Rel. 42, Created)
DT 10-OCT-2003 (Rel. 42, Last sequence update)
DT 03-JUL-2004 (Rel. 44, Last annotation update)
DE Probable WRKY transcription factor 33 (WRKY DNA-binding protein 33).
GN Names=WRKY33; OrderedLocNames=At2g38470; ORFNames=TI9C21.4;
OS Arabidopsis thaliana (Mouse-ear cress).
OC Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
OC Spermatophyta; Magnoliophyta; eudicotyledons; rosids;
OC euroids II; Brassicales; Brassicaceae; Arabidopsis.
OX NCBI_TaxID=3702;

RN SEQUENCE FROM N.A.
RC STRAIN=cv. Columbia; TISSUE=Flower;
RA Lippok B., Somsich I.E.;
RT "Arabidopsis thaliana transcription factor WRKY33.";
RL Submitted (MAY-2002) to the EMBL/GenBank/DBJ databases.
[2]
RN SEQUENCE FROM N.A.
RC STRAIN=cv. Columbia;
RX MEDLINE=20083487; PubMed=10617197; DOI=10.1038/45471;
RA Lin X., Kaul S., Rounsley S.D., Shea T.P., Benito M.-I., Town C.D.,
RA Fujii C.Y., Mason T.M., Bowman C.L., Barnstead M.E., Feldblum T.V.,
RA Buell C.R., Ketchum K.A., Lee J.J., Ranning C.M., Koo H.L.,
RA Moffat K.S., Cronin L.A., Shen M., Pai G., Van Aken S., Umayam L.,
RA Tallon L.J., Gill J.E., Adams M.D., Carrera A.J., Creasy T.H.,
RA Goodman H.M., Somerville C.R., Copenhaver G.P., Preuss D.,
RA Niernan W.C., White O., Eisen J.A., Salzberg S.L., Fraser C.M.,
RA Venter J.C.;
RT "Sequence and analysis of chromosome 2 of the plant Arabidopsis
RT thaliana.";
RL Nature 402:761-768(1999).
CC -1- FUNCTION: Transcription factor. Interacts specifically with the W
CC box (5'-(T)TGAC(C/T)-3'), a frequently occurring elicitor-
CC responsive cis-acting element (By similarity).
CC -1- SUBCELLULAR LOCATION: Nuclear (Probable).
CC -1- SIMILARITY: Belongs to the WRKY group I family.
CC -1- SIMILARITY: Contains 2 WRKY domains.
CC -----
CC This SWISS-PROT entry is copyright. It is produced through a collaboration
CC between the Swiss Institute of Bioinformatics and the EMBL outstation -
CC the European Bioinformatics Institute. There are no restrictions on its
CC use by non-profit institutions as long as its content is in no way
CC modified and this statement is not removed. Usage by and for commercial
CC entities requires a license agreement (See http://www.isb-sib.ch/announce/
CC or send an email to license@isb-sib.ch).
CC -----
DR ENBL; AF509499; AAM34736.1; -.
DR EMBL; AC004683; AAM14994.1; -.
DR PIR; T02498; T02498.
DR InterPro; IPR003657; WRKY.
DR Pfam; PF03106; WRKY; 2.
DR PROSITE; PS0811; WRKY; 2.
DR DNA-BINDING; Nuclear protein; Repeat; Transcription regulation.
FT DOMAIN 123 135 Thr-rich.
FT DNA_BIND 171 235 WRKY 1.
FT DNA_BIND 349 414 WRKY 2.
FT DOMAIN 461 481 Asn-rich.
FT SEQUENCE 512 AA; 56457 MW; 8F19CBE41BC18662 CRC64;
Query Match 3.3%; Score 14; DB 1; Length 512;
Best Local Similarity 100.0%; Pred. No. 0.00024;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 322 PTTTTTTTTTTTTT 335
Db 122 PTTTTTTTTTTTTT 135

RESULT 52
IAIC DIACA
ID IAIC DIACA STANDARD; PRT; 517 AA.
AC P27486;
DT 01-AUG-1992 (Rel. 23, Created)
DT 01-AUG-1992 (Rel. 23, Last sequence update)
DT 05-JUL-2004 (Rel. 44, Last annotation update)
DE 1-aminocyclopropane-1-carboxylate synthase (EC 4.4.1.14) (ACC
GN Name=ACS2; Synonyms=CARACC;
OS Dianthus caryophyllus (Carnation) (Clove pink).
OC Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
OC Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots;
OC Caryophyllales; Caryophyllaceae; Dianthus.
OX NCBI_TaxID=3570;
```

```

RN  SEQUENCE FROM N.A.
RP  TISSUE=Petal;
RX  MEDLINE=92119258; PubMed=1731995;
RA  Park K.Y., Drory A., Woodson W.R.;
RR  "Molecular cloning of an 1-aminocyclopropane-1-carboxylate synthase
RT  from senescing carnation flower petals.";
RL  Plant Mol. Biol. 18:377-386(1992)
CC  -1- FUNCTION: Catalyzes the formation of 1-aminocyclopropane-1-
CC  carboxylate, a direct precursor of ethylene in higher plants.
CC  -1- CATALYTIC ACTIVITY: S-adenosyl-L-methionine = 1-aminocyclopropane-
CC  1-carboxylate + methylthioadenosine.
CC  -1- COFACTOR: Pyridoxal phosphate.
CC  -1- PATHWAY: Ethylene biosynthesis; first (rate-limiting) step.
CC  -1- SUBUNIT: Homodimer.
CC  -1- SIMILARITY: Belongs to the class-I pyridoxal-phosphate-dependent
CC  aminotransferase family.
CC  -----
CC  This SWISS-PROT entry is copyright. It is produced through a collaboration
CC  between the Swiss Institute of Bioinformatics and the EMBL outstation -
CC  the European Bioinformatics Institute. There are no restrictions on its
CC  use by non-profit institutions as long as its content is in no way
CC  modified and this statement is not removed. Usage by and for commercial
CC  entities requires a license agreement (See http://www.isb-sib.ch/announce/
CC  or send an email to license@isb-sib.ch).
CC  -----
DR  EMBL; M66619; AAA33275.1; -.
DR  PIR; S19252; S19252.
DR  HSSP; P18485; 1IAX.
DR  InterPro; IPR001176; ACC synthase.
DR  InterPro; IPR004839; Aminotrans I/II.
DR  InterPro; IPR004838; NHtransf_1_BS.
DR  Pfam; PF00155; Aminotran_1_2; 1.
DR  PRINTS; PR00753; ACCSYNTBASE.
DR  PROSITE; PS00105; AA_TRANSFER_CLASS_1; 1.
KW  Ethylene biosynthesis; Fruit ripening; Lyase; Multigene family;
KW  Pyridoxal phosphate.
FT  BINDING 277 277 Pyridoxal phosphate (By similarity).
FT  DOMAIN 453 470 Poly-Thr.
SQ  SEQUENCE 517 AA; 58057 MW; C31BA10732E940AE CRC64;

Query Match 3.3%; Score 14; DB 1; Length 517;
Best Local Similarity 100.0%; Pred. No. 0.00024; Mismatches 0; Indels 0; Gaps 0;
Matches 14; Conservative 0;

QY 323 TTTTITTTTTTTTTT 336
DB 458 TTTTITTTTTTTTTT 471

RESULT 53
Q43753 PRELIMINARY; PRT; 518 AA.
AC Q43753
DT 01-NOV-1996 (TrEMBLrel. 01, Created)
DT 01-NOV-1996 (TrEMBLrel. 01, Last sequence update)
DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
DE 1-aminocyclopropane 1-carboxylate synthase (EC 4.4.1.14).
OS Dianthus carophyllus (Carnation) (Clove pink).
OC Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
OC Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots;
OC Caryophyllales; Caryophyllaceae; Dianthus.
OX NCBI_TaxID=3570;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=Petal;
RA Michael M.Z.;
RL Submitted (DEC-1992) to the EMBL/GenBank/DBJ databases.
DR EMBL; Z18952; CAA79477.1; -.
DR PIR; S31442; S31442.
DR HSSP; P18485; 1IAX.
DR GO; GO:0016847; F:1-aminocyclopropane-1-carboxylate synthase . . .; IEA.
DR GO; GO:0016829; F:lyase activity; IEA.

```

```

DR  GO; GO:0008483; F:transaminase activity; IEA.
DR  GO; GO:0009058; P:biosynthesis; IEA.
DR  InterPro; IPR001176; ACC synthase.
DR  InterPro; IPR004839; Aminotrans I/II.
DR  InterPro; IPR004838; NHtransf_1_BS.
DR  Pfam; PF00155; Aminotran_1_2; 1.
DR  PRINTS; PR00753; ACCSYNTBASE.
DR  PROSITE; PS00105; AA_TRANSFER_CLASS_1; 1.
KW  Lyase.
SQ  SEQUENCE 518 AA; 58003 MW; EF8B8BC8F03A493E CRC64;

Query Match 3.3%; Score 14; DB 2; Length 518;
Best Local Similarity 100.0%; Pred. No. 0.00024; Mismatches 0; Indels 0; Gaps 0;
Matches 14; Conservative 0;

QY 323 TTTTITTTTTTTTTT 336
DB 459 TTTTITTTTTTTTTT 472

RESULT 54
Q7YYV0 PRELIMINARY; PRT; 667 AA.
AC Q7YYV0
DT 01-OCT-2003 (TrEMBLrel. 25, Created)
DT 01-OCT-2003 (TrEMBLrel. 25, Last sequence update)
DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
DE Hypothetical protein.
GN ORFNames=1MB.826;
OS Cryptosporidium parvum.
OC Eukaryota; Alveolata; Apicomplexa; Coccidia; Eimeriida;
OC Cryptosporidiidae; Cryptosporidium.
OX NCBI_TaxID=5807;
RN [1]
RP SEQUENCE FROM N.A.
RA Bankier A.T., Spriggs H.F., Fartmann B., Konfortov B.A., Madera M.,
RA Vogel C., Teichmann S.A., Ivens A., Dear P.H.;
RT "Integrated mapping, chromosomal sequencing and sequence analysis of
RL Genome Res. 0:0-0(2003).
DR EMBL; BX538353; CAD98350.1; -.
DR InterPro; IPR000458; Tryp_mucin.
DR Pfam; PF01456; Mucin; 1.
KW Hypothetical protein.
SQ  SEQUENCE 667 AA; 73337 MW; 92F583112C839992 CRC64;

Query Match 3.3%; Score 14; DB.2; Length 667;
Best Local Similarity 100.0%; Pred. No. 0.0003; Mismatches 0; Indels 0; Gaps 0;
Matches 14; Conservative 0;

QY 322 PTTTITTTTTTTTTT 335
DB 541 PTTTITTTTTTTTTT 554

RESULT 55
Q8UIH5 PRELIMINARY; PRT; 717 AA.
AC Q8UIH5
DT 01-JUN-2002 (TrEMBLrel. 21, Created)
DT 01-JUN-2002 (TrEMBLrel. 21, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE Putative chitinase.
GN OrderedLocusNames=PF1233;
OS Pyrococcus furiosus.
OC Archaea; Euryarchaeota; Thermococci; Thermococcaceae;
OC Pyrococcus.
OX NCBI_TaxID=2261;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=Vc1 / DSM 3638 / ATCC 43587 / JCM 8422;
RA Weiss R.B., Dunn D.M., Robb F.T., Brown J.R.;
RT "The complete sequence of the Pyrococcus furiosus genome."

```

```

RL Submitted (FEB-2002) to the EMBL/GenBank/DBJ databases.
DR EMBL; AE010230; AAL81357.1; -.
DR HSSP; Q13231; 11G2.
DR GO; GO:0016787; F:hydrolase activity; IEA.
DR GO; GO:0004553; F:hydrolase activity, hydrolyzing O-glycosyl . . .; IEA.
DR GO; GO:0005375; P:carbohydrate metabolism; IEA.
DR GO; GO:0008152; P:metabolism; IEA.
DR PFam; PF00553; CBM_2; 1.
DR PFam; PF00704; Glyco_hydro_18; 1.
DR SMART; SM00637; CBD_II; 1.
KW Complete proteome.
SQ SEQUENCE 717 AA; 78635 MW; FBCB55B9C950E38B CRC64;

Query Match 3.3%; Score 14; DB 2; Length 717;
Best Local Similarity 100.0%; Pred. No. 0.00032;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 322 PTTTITTTTTTTTTT 335
Db |||||TTTTTTTTT 248

RESULT 56
Q9V515 PRELIMINARY; PRT; 746 AA.
AC
Q9V515;
DT 01-MAY-2000 (TrEMBLrel. 13, Created)
DT 01-MAY-2000 (TrEMBLrel. 13, Last sequence update)
DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
DE C68181-PA.
GN ORFNames=C68181;
OS Drosophila melanogaster (Fruit fly).
OC Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;
OC Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha;
OC Ephydroidea; Drosophilidae; Drosophila.
OX NCBI_TaxID=7227;
RN [1]

SEQUENCE FROM N.A.
RP MEDLINE=20196006; PubMed=107311132; DOI=10.1126/science.287.5461.2185;
RA Adams M.D., Celniker S.E., Holt R.A., Evans C.A., Gocayne J.D.,
RA Amanatides P.G., Scherer S.E., Li P.W., Hoskins R.A., Galle R.F.,
RA George R.A., Lewis S.E., Richards S., Ashburner M., Henderson S.N.,
RA Sutton G.G., Wortman J.R., Yandell M.D., Zhang Q., Chen L.X.,
RA Brandon R.C., Rogers Y.H., Blazek R.G., Champe M., Pfeiffer B.D.,
RA Wan K.H., Doyle C., Baxter E.G., Helt G., Nelson C.R., Gabor G.L.,
RA Abrial J.F., Agbayani A., An H.J., Andrews-Pfannkoch C., Baldwin D.,
RA Ballew R.M., Basu A., Baxendale J., Bayraktaroglu L., Beasley E.M.,
RA Beeson K.Y., Benos P.V., Berman B.P., Bhandari D., Bolshakov S.,
RA Borkova D., Botchan M.R., Bouck J., Brokstein P., Brattier P.,
RA Burtis K.C., Busam D.A., Butler H., Cadieu E., Center A., Chandra I.,
RA Cherry J.M., Cawley S., Dahlke C., Davenport L.B., Davies P.,
RA de Pablos B., Delcher A., Deng Z., Mays A.D., Dew I., Dietz S.M.,
RA Dodson K., Doup L.E., Downes M., Dugan-Rocha S., Dunkov B.C., Dunn P.,
RA Durbin K.J., Evangelista C.C., Ferraz C., Ferreira S., Fleischmann W.,
RA Flesler C., Gabrielian A.E., Garg N.S., Gelbart W.M., Glasser K.,
RA Glöck A., Gong F., Gorrell J.H., Gu Z., Guan P., Harris M.,
RA Harris N.L., Harvey D., Heiman T.J., Hernandez J.R., Houck J.,
RA Hostin D., Houston K.A., Howland T.J., Wei M.H., Ibegwam C.,
RA Jalali M., Kalush F., Karpen G.H., Ke Z., Kennison J.A., Ketchum K.A.,
RA Kimmel B.E., Kodira C.D., Kraft C., Kravitz S., Kulp D., Lai Z.,
RA Lasko P., Lei Y., Levitsky A.A., Li J., Li Z., Liang Y., Lin X.,
RA Liu X., Mattei B., McIntosh T.C., McLeod M.P., McPherson D.,
RA Merkulov G., Milshina N.V., Mobarry C., Morris J., Moshrefi A.,
RA Mount S.M., Moy M., Murphy B., Murphy L., Muzny D.M., Nelson D.L.,
RA Nelson D.R., Nelson K.A., Nixon K., Nusskern D.R., Pacleb J.M.,
RA Palazzolo M., Pittman G.S., Pan S., Pollard J., Puri V., Reese M.G.,
RA Reinert K., Remington K., Saunders R.D., Scheeler F., Shen H.,
RA Shue B.C., Siden-Kiamos I., Simpson M., Skupski M.P., Smith T.,
RA Spier E., Spradling A.C., Stapleton M., Strong R., Sun E.,
RA Svirskas R., Tector C., Turner R., Venter E., Wang A.H., Wang X.,
RA Wang Z.Y., Wassarman D.A., Weinstein G.M., Weissenbach J.,
RA Williams S.M., Woodage, Worley K.C., Wu D., Yang S., Yao Q.A., Ye J.,
RA Yeh R.F., Zaveri J.S., Zhan M., Zhang G., Zhao Q., Zheng L.,

```

```

RA Zheng X.H., Zhong F.N., Zhong W., Zhou X., Zhu S., Smith H.O.,
RA Gibbs R.A., Myers E.W., Rubin G.M., Venter J.C.;
RT "The genome sequence of Drosophila melanogaster.";
RL Science 287:2185-2195(2000).
RN [2]
RP SEQUENCE FROM N.A.
RX MEDLINE=22426065; PubMed=12537568;
RA Celniker S.E., Wheeler D.A., Kronmiller B., Carlson J.W., Halpern A.,
RA Patel S., Adams M., Champe M., Dugan S.P., Frise E., Hodgson A.,
RA George R.A., Hoskins R.A., Laverty T., Muzny D.M., Nelson C.R.,
RA Pacleb J.M., Park S., Pfeiffer B.D., Richards S., Sodergren E.J.,
RA Svirskas R., Taber P.E., Wan K., Stapleton M., Sutton G.G., Venter C.,
RA Weinstein G., Scherer S.E., Myers E.W., Gibbs R.A., Rubin G.M.;
RT "Finishing a whole-genome shotgun: Release 3 of the Drosophila
RT melanogaster euchromatic genome sequence";
RL Genome Biol. 3:RESEARCH0079-RESEARCH0079(2002).
RN [3]
RP SEQUENCE FROM N.A.
RX MEDLINE=22426070; PubMed=12537573;
RA Kaminker J.S., Bergman C.M., Kronmiller B., Carlson J., Svirskas R.,
RA Patel S., Frise E., Wheeler D.A., Lewis S.E., Rubin G.M.,
RA Ashburner M., Celniker S.E.;
RT "The transposable elements of the Drosophila melanogaster euchromatin:
RT a genomics perspective.";
RL Genome Biol. 3:RESEARCH0084-RESEARCH0084(2002).
RN [4]
RP SEQUENCE FROM N.A.
RX MEDLINE=22426069; PubMed=12537572;
RA Misra S., Crosby M.A., Mungall C.J., Matthews B.B., Campbell K.S.,
RA Hradecky P., Huang Y., Kaminker J.S., Millburn G.H., Prochnik S.E.,
RA Smith C.D., Tupy J.L., Whitfield E.J., Bayraktaroglu L., Berman B.P.,
RA Bettencourt B.R., Celniker S.E., de Grey A.D., Drysdale R.A.,
RA Harris N.L., Richter J., Russo S., Schroeder A.J., Shu S.Q.,
RA Stapleton M., Yamada C., Ashburner M., Gelbart W.M., Rubin G.M.,
RA Lewis S.E.;
RT "Annotation of the Drosophila melanogaster euchromatic genome: a
RT systematic review.";
RL Genome Biol. 3:RESEARCH0083-RESEARCH0083(2002).
RN [5]
RP SEQUENCE FROM N.A.
RG FlyBase;
RL Submitted (SEP-2002) to the EMBL/GenBank/DBJ databases.
RN [6]
RP SEQUENCE FROM N.A.
RG FlyBase;
RL Submitted (MAR-2004) to the EMBL/GenBank/DBJ databases.
DR EMBL; AE003835; AAF59007.1; -.
DR FlyBase; FBgn0033361; CG8181.
SQ SEQUENCE 746 AA; 78593 MW; FB6F9F8DA3027334 CRC64;

Query Match 3.3%; Score 14; DB 2; Length 746;
Best Local Similarity 100.0%; Pred. No. 0.00033;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 322 PTTTITTTTTTTTTT 335
Db |||||TTTTTTTTT 448

RESULT 57
Q23916 PRELIMINARY; PRT; 860 AA.
AC
Q23916;
DT 01-NOV-1996 (TrEMBLrel. 01, Created)
DT 01-NOV-1996 (TrEMBLrel. 01, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE Hypothetical protein mkcA.
GN Name=mkcA;
OS Dictyostelium discoideum (Slime mold).
OC Eukaryota; Mycetozoa; Dictyostelida; Dictyostelium.
OX NCBI_TaxID=44689;
RN [1]
RP SEQUENCE FROM N.A.

```

RX MEDLINE=97140317; PubMed=8986798; DOI=10.1073/pnas.93.26.15260;
RA Shaulsky G., Escalante R., Loomis W.F.;
RT "Developmental signal transduction pathways uncovered by genetic suppressors";
RL Proc. Natl. Acad. Sci. U.S.A. 93:15260-15265(1996).
DR HSSP; Q13153; 1F3M.
DR DictyBase; DDB0191179; mkaA.
DR GO; GO:0005524; F:ATP binding; IEA.
DR GO; GO:0004674; F:protein serine/threonine kinase activity; IEA.
DR GO; GO:0004713; F:protein-tyrosine kinase activity; IEA.
DR GO; GO:0016740; F:transferase activity; IEA.
DR GO; GO:0006468; P:protein amino acid phosphorylation; IEA.
DR InterPro; IPR011008; Kinase like.
DR InterPro; IPR000719; Prot_kinase.
DR InterPro; IPR002290; Ser_thr_kinase.
DR InterPro; IPR008271; Ser_thr_pkinase.
DR Pfam; PF000649; Pkinase; 1.
DR PRINTS; PR00109; TYRKINASE.
DR ProDom; PD000001; Prot_kinase; 1.
DR SMART; SM00220; S_TKc; 1.
DR PROSITE; PS00107; PROTEIN_KINASE_ATP; UNKNOWN_1.
DR PROSITE; PS00111; PROTEIN_KINASE_DOM; 1.
DR PROSITE; PS00108; PROTEIN_KINASE_ST; UNKNOWN_1.
KW ATP-binding; Hypothetical protein; Kinase; Transferase.
SQ SEQUENCE 860 AA; 97812 MW; 20AED8C81826DC21 CRC64;

Query Match 3.3%; Score 14; DB 2; Length 860;
Best Local Similarity 100.0%; Pred. No. 0.00037;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 321 PPTTTTTTTTTTTT 334
Db 268 PPTTTTTTTTTTTT 281

RESULT 58
Q26257
ID Q26257 PRELIMINARY; PRT; 872 AA.
AC Q26257;
DT 01-NOV-1996 (TrEMBLrel. 01, Created)
DT 01-NOV-1998 (TrEMBLrel. 08, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE Rep protein.
GN Name=REP;
OS Dictyostelium giganteum.
OG Plasmid Dgpl.
OC Eukaryota; Mycetozoa; Dictyosteliida; Dictyostelium.
OX NCBI_TaxID=5787;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=DG61;
RX MEDLINE=98139494; PubMed=9472083;
RA Shamat I.M., Gonzales C., Welker D.L.;
RT "Dictyostelium discoideum nuclear plasmid Ddp6 is a new member of the Ddp2 plasmid family.";
RL Curr. Genet. 33:77-82(1998).
RN [2]
RP SEQUENCE FROM N.A.
RC STRAIN=DG61;
RX MEDLINE=99189343; PubMed=10087212; DOI=10.1006/plas.1998.1385;
RA Gonzales C.M., Spencer T.D., Pendley S.S., Welker D.L.;
RT "Dgpl and Dfpl are closely related plasmids in the Dictyostelium Ddp2 plasmid family.";
RN [3]
RP SEQUENCE FROM N.A.
RC STRAIN=DG61;
RX MEDLINE=92390516;
RA Yin Y., Welker D.L.;
RT "Dictyostelium giganteum plasmid Dgpl is a member of the Ddp2 plasmid family.";

RL Plasmid 28:37-45(1992).
DR EMBL; U94491; AAC333153.1; --
DR FIR; PQ0444; PQ0444.
DR InterPro; IPR007778; Dicty_REP.
DR Pfam; PF05086; Dicty_REP; 1.
KW Plasmid.
SQ SEQUENCE 872 AA; 101038 MW; A98F6817567CDF3B CRC64;

Query Match 3.3%; Score 14; DB 2; Length 872;
Best Local Similarity 100.0%; Pred. No. 0.00037;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 322 PTTTTTTTTTTTTT 335
Db 259 PTTTTTTTTTTTTT 272

RESULT 59
O76535
ID O76535 PRELIMINARY; PRT; 874 AA.

AC O76535;
DT 01-NOV-1998 (TrEMBLrel. 08, Created)
DT 01-NOV-1998 (TrEMBLrel. 08, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE Rep protein.
GN Name=rep;
OS Dictyostelium firmibasis.
OG Plasmid Dfpl.
OC Eukaryota; Mycetozoa; Dictyosteliida; Dictyostelium.
OX NCBI_TaxID=79012;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=CR II 2B;
RX MEDLINE=99189343; PubMed=10087212; DOI=10.1006/plas.1998.1385;
RA Gonzales C.M., Spencer T.D., Pendley S.S., Welker D.L.;
RT "Dgpl and Dfpl are closely related plasmids in the Dictyostelium Ddp2 plasmid family";
RL Plasmid 41:89-96(1999).
DR EMBL; AF076279; AAC33156.1; --
DR InterPro; IPR007778; Dicty_REP.
DR Pfam; PF05086; Dicty_REP; 1.
KW Plasmid.
SQ SEQUENCE 874 AA; 100695 MW; CC632152A4C09B1D CRC64;

Query Match 3.3%; Score 14; DB 2; Length 874;
Best Local Similarity 100.0%; Pred. No. 0.00037;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 322 PTTTTTTTTTTTTT 335
Db 259 PTTTTTTTTTTTTT 272

RESULT 60
Q23913
ID Q23913 PRELIMINARY; PRT; 887 AA.

AC Q23913;
DT 01-NOV-1996 (TrEMBLrel. 01, Created)
DT 01-NOV-1996 (TrEMBLrel. 01, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE Rep protein.
GN Name=rep;
OS Dictyostelium discoideum (Slime mold).
OC Eukaryota; Mycetozoa; Dictyosteliida; Dictyostelium.
OX NCBI_TaxID=44689;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=WS380B;
RX MEDLINE=91172902; PubMed=2077544;
RA Slade M.B., Chang A.C.M., Williams K.L.;
RT "The sequence and organisation of Ddp2, a high copy number plasmid of Dictyostelium discoideum.";
RL Plasmid 24:195-207(1990).

```

RN RC
RP STRAIN=WS380B;
RX MEDLINE=91172903; PubMed=2077545;
RA Chang A.C.M., Slade M.B., Williams K.L.;
RT "Identification of the origin of replication of the eukaryote
RL Dictyostellium discoideum nuclear plasmid Ddp2.";
DR EMBL; X51478; CAA35843.1; -.
DR DictyBase; DDB0001833; Ddp2-rep.
DR InterPro; IPR007778; Dict_REP.
DR Pfam; PF05086; Dicty_REP; 1.
SQ SEQUENCE 887 AA; 100809 MW; 478B68C4E500F470 CRC64;

Query Match 3.3%; Score 14; DB 2; Length 887;
Best Local Similarity 100.0%; Pred. No. 0.00038;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 322 PTTTTTTTTTTTTT 335
DB 250 PTTTTTTTTTTTTT 263

RESULT 61
Q23895 ID Q23895 PRELIMINARY; PRT; 889 AA.
AC Q23895;
DT 01-NOV-1996 (TrEMBLrel. 01, Created)
DT 01-NOV-1996 (TrEMBLrel. 01, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE Trans-acting factor.
OS Dictyostellium discoideum (Slime mold).
OC Eukaryota; Mycetozoa; Dictyosteliida; Dictyostellium.
OX NCBI_TaxID=44689;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=WS380B;
RX MEDLINE=90287164; PubMed=2192261;
RA Leitig B., Lindner I.J., Noegel A.A.;
RT "The extrachromosomal replication of Dictyostellium plasmid Ddp2
RT requires a cis-acting element and a plasmid-encoded trans-acting
RT factor.";
RL Mol. Cell. Biol. 10:3727-3736(1990).
DR EMBL; M55298; AAA33191.1; -.
DR PIR; A35679; A35679.
DR DictyBase; DDB0001833; Ddp2-rep.
DR InterPro; IPR007778; Dict_REP.
DR Pfam; PF05086; Dicty_REP; 1.
SQ SEQUENCE 889 AA; 101055 MW; 0C96F120DE30F544 CRC64;

Query Match 3.3%; Score 14; DB 2; Length 889;
Best Local Similarity 100.0%; Pred. No. 0.00038;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 322 PTTTTTTTTTTTTT 335
DB 250 PTTTTTTTTTTTTT 263

RESULT 62
Q86A69 ID Q86A69 PRELIMINARY; PRT; 895 AA.
AC Q86A69;
DT 01-JUN-2003 (TrEMBLrel. 24, Created)
DT 01-JUN-2003 (TrEMBLrel. 24, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE Similar to Arabidopsis thaliana (Mouse-ear cross). Hypothetical 79.2
DE kDa protein.
OS Dictyostellium discoideum (Slime mold).
OC Eukaryota; Mycetozoa; Dictyosteliida; Dictyostellium.
OX NCBI_TaxID=44689;
RN [1]
RP SEQUENCE FROM N.A.

```

```

RC STRAIN=AX4;
RX MEDLINE=22092622; PubMed=12097910; DOI=10.1038/nature00847;
RA Gloeckner G., Eichinger L., Szafranski K., Pachebat J., Dear P.,
RA Lehmann R., Baumgart C., Parra G., April J.F., Guigo R., Kumpf K.,
RA Tunggal B., Cox E., Quail M.A., Platzer M., Rosenthal A., Noegel A.A.;
RT "Sequence and analysis of chromosome 2 of Dictyostellium discoideum.";
RL Nature 418:79-85(2002).
RN [2]
RP SEQUENCE FROM N.A.
RC STRAIN=AX4;
RA Baumgart C.;
RL Submitted (MAR-2003) to the EMBL/GenBank/DBJ databases.
DR EMBL; AC116986; AAC51907.1; -.
DR DictyBase; DDB0168226; JC2V2 0.00892.
DR InterPro; IPR006768; CwfJ_C1.
DR InterPro; IPR006767; CwfJ_C2.
DR Pfam; PF04677; CwfJ_C1; 1.
DR Pfam; PF04676; CwfJ_C2; 1.
KW Hypothetical protein.
SQ SEQUENCE 895 AA; 104485 MW; 94895D6A284E3384 CRC64;

Query Match 3.3%; Score 14; DB 2; Length 895;
Best Local Similarity 100.0%; Pred. No. 0.00038;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 322 PTTTTTTTTTTTTT 335
DB 434 PTTTTTTTTTTTTT 447

RESULT 63
Q86L47 ID Q86L47 PRELIMINARY; PRT; 937 AA.
AC Q86L47;
DT 01-JUN-2003 (TrEMBLrel. 24, Created)
DT 01-JUN-2003 (TrEMBLrel. 24, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE Hypothetical protein.
OS Dictyostellium discoideum (Slime mold).
OC Eukaryota; Mycetozoa; Dictyosteliida; Dictyostellium.
OX NCBI_TaxID=44689;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=AX4;
RX MEDLINE=22092622; PubMed=12097910; DOI=10.1038/nature00847;
RA Gloeckner G., Eichinger L., Szafranski K., Pachebat J., Dear P.,
RA Lehmann R., Baumgart C., Parra G., April J.F., Guigo R., Kumpf K.,
RA Tunggal B., Cox E., Quail M.A., Platzer M., Rosenthal A., Noegel A.A.;
RT "Sequence and analysis of chromosome 2 of Dictyostellium discoideum.";
RL Nature 418:79-85(2002).
RN [2]
RP SEQUENCE FROM N.A.
RC STRAIN=AX4;
RA Baumgart C.;
RL Submitted (MAR-2003) to the EMBL/GenBank/DBJ databases.
DR EMBL; AC117075; AAC50743.1; -.
DR GO; GO:0005663; C-DNA replication factor C complex; IEA.
DR GO; GO:0005524; F-ATP binding; IEA.
DR GO; GO:0003677; F-DNA binding; IEA.
DR GO; GO:0000166; F-nucleotide binding; IEA.
DR GO; GO:0006260; P-DNA replication; IEA.
DR InterPro; IPR003593; AAA_ATPase.
DR InterPro; IPR003959; AAA_ATPase_cent.
DR InterPro; IPR000862; RFC.
DR Pfam; PF00004; AAA; 1.
DR SMART; SM00382; AAA; 1.
KW ATP-binding; Hypothetical protein.
SQ SEQUENCE 937 AA; 106088 MW; 0AFD6F0123CE2967 CRC64;

Query Match 3.3%; Score 14; DB 2; Length 937;
Best Local Similarity 100.0%; Pred. No. 0.0004;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

QY 323 TTTT TTTT TTTT TTTT TTTT 336
 DB 51 TTTT TTTT TTTT TTTT TTTT 64

RESULT 64
 Q8IP52
 ID Q8IP52 PRELIMINARY; PRT; 1166 AA.
 AC Q8IP52
 DT 01-MAR-2003 (TrEMBLrel. 23, Created)
 DT 01-MAR-2003 (TrEMBLrel. 23, Last sequence update)
 DT 25-OCT-2004 (TrEMBLrel. 28, Last annotation update)
 GN CG32972-PB (RE16941p)
 DE Name=BG-DS01523.2; ORFNames=CG32972;
 OS Drosophila melanogaster (Fruit fly).
 OC Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;
 OC Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha;
 OC Ephydroidea; Drosophilidae; Drosophila.
 OX NCBI_TaxID=7227;
 RN [1]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=2019606; PubMed=10731132; DOI=10.1126/science.287.5461.2185;
 RA Adams M.D., Celniker S.E., Holt R.A., Evans C.A., Gocayne J.D.,
 RA Amanatides P.G., Scherer S.E., Li P.W., Hoskins R.A., Galle R.F.,
 RA George R.A., Lewis S.E., Richards S., Ashburner M., Henderson S.N.,
 RA Sutton G.G., Wortman J.R., Yandell M.D., Zhang Q., Chen L.X.,
 RA Brandon R.C., Rogers Y.H., Blazej R.G., Champe M., Pfeiffer B.D.,
 RA Wan K.H., Doyle C., Baxter E.G., Helt G., Nelson C.R., Gabor G.L.,
 RA Abril J.F., Agbayani A., An H.J., Andrews-Pfannkoch C., Baldwin D.,
 RA Ballew R.M., Basu A., Baxendale J., Bayraktaroglu L., Beasley E.M.,
 RA Beeson K.V., Benos P.V., Berman B.P., Bhandari D., Bolshakov S.,
 RA Borkova D., Botchan M.R., Bouck J., Brokstein P., Brottier P.,
 RA Burtis K.C., Buesam D.A., Butler H., Cadieu E., Center A., Chandra I.,
 RA Cherry J.M., Cawley S., Dahlke C., Davenport L.B., Davies P.,
 RA de Pablos B., Delcher A., Deng Z., Mays A.D., Dew I., Dietz S.M.,
 RA Dodson K., Doup L.E., Downes M., Dugan-Rocha S., Dunkov B.C., Dunn P.,
 RA Durbin K.J., Evangelista C.C., Ferraz C., Ferrieria S., Fleischmann W.,
 RA Foller C., Gabrielian A.E., Garg N.S., Gelbart W.M., Glasser K.,
 RA Glodek A., Gong F., Gorrell J.H., Gu Z., Guan P., Harris M.,
 RA Hostin D., Houston K.A., Howland T.J., Hernandez J.R., Houck J.,
 RA Jalali M., Kalush F., Karpen G.H., Ke Z., Kennison J.A., Ketchum K.A.,
 RA Kimmel B.E., Kodira C.D., Kraft C., Kravitz S., Kulp D., Lai Z.,
 RA Laoko P., Lei Y., Levitsky A.A., Li J., Li Z., Liang Y., Lin X.,
 RA Liu X., Mattei B., McIntosh T.C., McLeod M.P., McPherson D.,
 RA Merkulov G., Milshina N.V., Mobarry C., Morris J., Moshrefi A.,
 RA Mount S.M., Moy M., Murphy B., Murphy L., Muzny D.M., Nelson D.L.,
 RA Nelson D.R., Nelson K.A., Nixon K., Nuskern D.R., Pacleb J.M.,
 RA Palazzolo M., Pittman G.S., Pan S., Pollard J., Puri V., Reese M.G.,
 RA Reinert K., Remington K., Saunders R.D., Scheeler F., Shen H.,
 RA Shue B.C., Siden-Kiamos I., Simpson M., Skupski M.P., Smith T.,
 RA Spier E., Spradling A.C., Stapleton M., Strong R., Sun E.,
 RA Svirskas R., Tector C., Turner R., Venter E., Wang A.H., Wang X.,
 RA Wang Z.Y., Wassarman D.A., Weinstock G.M., Weissbach J.,
 RA Williams S.M., Woodagef, Worley K.C., Wu D., Yang S., Yao Q.A., Ye J.,
 RA Yen R.F., Zaveri J.S., Zhan M., Zhang G., Zhao Q., Zheng L.,
 RA Zheng X.H., Zhong F.N., Zhong W., Zhou X., Zhu S., Zhu X., Smith H.O.,
 RA Gibbs R.A., Myers E.W., Rubin G.M., Venter J.C.;
 RT "The genome sequence of Drosophila melanogaster.";
 RL Science 287:2185-2195 (2000).
 RN [2]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=22426065; PubMed=12537568;
 RA Celniker S.E., Wheeler D.A., Krommiller B., Carlson J.W., Halpern A.,
 RA Patel S., Adams M., Champe M., Dugan S.P., Frise E., Hodgson A.,
 RA George R.A., Hoskins R.A., Laverly T., Muzny D.M., Nelson C.R.,
 RA Pacieb J.N., Park S., Pfeiffer B.D., Richardson S., Sodergren E.J.,
 RA Svirskas R., Tabor P.E., Wan K., Stapleton M., Sutton G.G., Venter C.,
 RA Weinstock G., Scher S.E., Myers E.W., Gibbs R.A., Rubin G.M.;
 RT "Finishing a whole-genome shotgun: Release 3 of the Drosophila
 RT melanogaster euchromatic genome sequence.";
 RL Genome Biol. 3:RESEARCH0079-RESEARCH0079 (2002).
 RN [3]

RP SEQUENCE FROM N.A.
 RX MEDLINE=22426070; PubMed=12537573;
 RA Kaminker J.S., Bergman C.M., Krommiller B., Carlson J., Svirskas R.,
 RA Patel S., Frise E., Wheeler D.A., Lewis S.E., Rubin G.M.,
 RA Ashburner M., Celniker S.E.;
 RT "The transposable elements of the Drosophila melanogaster euchromatin:
 RT a genomics perspective.";
 RL Genome Biol. 3:RESEARCH0084-RESEARCH0084 (2002).
 RN [4]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=22426069; PubMed=12537572;
 RA Misra S., Crosby M.A., Mungall C.J., Matthews B.B., Campbell K.S.,
 RA Hradscky P., Huang Y., Kaminker J.S., Millburn G.H., Prochnik S.E.,
 RA Smith C.D., Tupy J.L., Whitfield S.J., Bayraktaroglu L., Berman B.P.,
 RA Bettencourt B.R., Celniker S.E., de Grey A.D., Drysdale R.A.,
 RA Harris N.L., Richter J., Russo S., Schroeder A.J., Shu S.Q.,
 RA Stapleton M., Yamada C., Ashburner M., Gelbart W.M., Rubin G.M.,
 RA Lewis S.E.;
 RT "Annotation of the Drosophila melanogaster euchromatic genome: a
 RT systematic review.";
 RL Genome Biol. 3:RESEARCH0083-RESEARCH0083 (2002).
 RN [5]
 RP SEQUENCE FROM N.A.
 RX FlyBase;
 RL Submitted (SEP-2002) to the EMBL/GenBank/DBJ databases.
 RN [6]
 RP SEQUENCE FROM N.A.
 RX FlyBase;
 RL Submitted (MAR-2004) to the EMBL/GenBank/DBJ databases.
 RN [7]
 RP SEQUENCE FROM N.A.
 RX STRAIN=Berkeley;
 RA Stapleton M., Brokstein P., Hong L., Agbayani A., Carlson J.,
 RA Champe M., Chavez C., Dorsett V., Dresnek D., Farfan D., Frise E.,
 RA George R., Gonzalez M., Guarin H., Krommiller B., Li P., Liao G.,
 RA Miranda A., Mungall C.J., Nunoo J., Pacleb J., Paragas V., Park S.,
 RA Patel S., Phouanavong S., Wan K., Yu C., Lewis S.E., Rubin G.M.,
 RA Celniker S.;
 RL Submitted (AUG-2003) to the EMBL/GenBank/DBJ databases.
 DR EMBL; AE003642; AAN10874.1; -;
 DR EMBL; BT010014; AAQ22483.1; -;
 DR IntAct; Q8IP52; -;
 DR FlyBase; FBgn0028905; CG32972.
 DR GO; GO:0007155; P:cell adhesion; IEA.
 DR InterPro; IPR000782; BIGH3_FAS1.
 DR Pfam; PF02469; Fasciclin; 2.
 DR SMART; SM00554; FAS1; 2.
 DR PROSITE; PS0213; FAS1; 2.
 SQ SEQUENCE 1166 AA; 128893 MW; DD25F816E75F7CF9 CRC64;

Query Match 3.3%; Score 14; DB 2; Length 1166;
 Best Local Similarity 100.0%; Pred. No. 0.00048;
 Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 322 PTTT TTTT TTTT TTTT TTTT 335
 DB 407 PTTT TTTT TTTT TTTT TTTT 420

RESULT 65
 Q8SSU4
 ID Q8SSU4 PRELIMINARY; PRT; 1728 AA.
 AC Q8SSU4
 DT 01-JUN-2002 (TrEMBLrel. 21, Created)
 DT 01-JUN-2002 (TrEMBLrel. 21, Last sequence update)
 DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
 DE Similar to Dictyostelium discoideum (Slime mold). Nucleotide exchange
 DE factor RasGFP.
 OS Dictyostelium discoideum (Slime mold).
 OC Eukaryota; Mycetozoa; Dictyosteliida; Dictyostelium.
 OX NCBI_TaxID=44689;
 RN [1]
 RP SEQUENCE FROM N.A.


```

RC STRAIN=AX4;
RX MEDLINE=22092622; PubMed=12097910; DOI=10.1038/nature00847;
RA Gloeckner G., Eichinger L., Szafranski K., Pachebat J., Dear P.,
RA Lehmann R., Baumgart C., Parra G., April J.F., Guigo R., Kumpf K.,
RA Tungal B., Cox E., Quail M.A., Platzer M., Rosenthal A., Noegel A.A.;
RT "Sequence and analysis of chromosome 2 of Dictyostelium discoideum.";
RL Nature 418:79-85(2002).
RN [2]
RP SEQUENCE FROM N.A.
RC STRAIN=AX4;
RX Baumgart C.;
RL Submitted (MAR-2003) to the EMBL/GenBank/DBJ databases.
DR EMBL; AC116956; AAL92600.1; -.
DR HSSP; P21359; INF1.
DR InterPro; IPR006869; DUF547.
DR InterPro; IPR001547; Glyco_hydro_5.
DR InterPro; IPR001936; RasGAP.
DR InterPro; IPR008936; Rho_GAP.
DR Pfam; PF04784; DUF547; 1.
DR Pfam; PF00616; RasGAP; 1.
DR SMART; SM00323; RasGAP; 1.
DR PROSITE; PS00659; GLYCOSYL_HYDROL_F5; UNKNOWN_1.
DR PROSITE; PS00018; RAS_GTPASE_ACTIV_2; 1.
SQ SEQUENCE 1728 AA; 192334 MW; DB84425042FF48EA CRC64;

Query Match 3.3%; Score 14; DB 2; Length 1728;
Best Local Similarity 100.0%; Pred. No. 0.00067;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 322 PTTTNTTTTTTTTT 335
Db 151 PTTTNTTTTTTTTT 164

RESULT 66
ID O96503 PRELIMINARY; PRT; 1832 AA.
AC O96503;
DT 01-MAY-1999 (TrEMBLrel. 10, Created)
DT 01-MAY-1999 (TrEMBLrel. 10, Last sequence update)
DT 01-JUN-2003 (TrEMBLrel. 24, Last annotation update)
DE G9900.
OS Cryptosporidium parvum.
OC Eukaryota; Alveolata; Apicomplexa; Coccidia; Eimeriida;
OC Cryptosporidiidae; Cryptosporidium.
OX NCBI_TaxID=5807;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=99066935; PubMed=9851610; DOI=10.1016/S0166-6851(98)00119-4;
RA Barnes D.A., Bonnin A., Huang J.X., Goussert L., Wu J., Gut J.,
RA Doyle P., Dubremetz J.F., Ward H., Petersen C.;
RT "A novel multi-domain mucin-like glycoprotein of Cryptosporidium
RT parvum mediates invasion.";
RL Mol. Biochem. Parasitol. 96:93-110(1998).
DR EMBL; AF068065; AAC98153.1; -.
DR FPR; T31113; T31113.
SQ SEQUENCE 1832 AA; 192653 MW; 5906ACB16BB50D2 CRC64;

Query Match 3.3%; Score 14; DB 2; Length 1832;
Best Local Similarity 100.0%; Pred. No. 0.0007;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 322 PTTTNTTTTTTTTT 335
Db 373 PTTTNTTTTTTTTT 386

RESULT 67
Q7KT96 PRELIMINARY; PRT; 1853 AA.
AC Q7KT96;
DT 05-JUL-2004 (TrEMBLrel. 27, Created)
DT 05-JUL-2004 (TrEMBLrel. 27, Last sequence update)

```

```

DT 05-JUL-2004 (TrEMBLrel. 27, Last annotation update)
DE CRFNames=CG32972;
GN Drosophila melanogaster (Fruit fly).
OS Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;
OC Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha;
OC Ephydroidea; Drosophilidae; Drosophila.
OX NCBI_TaxID=7227;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=20196006; PubMed=10731132; DOI=10.1126/science.287.5461.2185;
RA Adams M.D., Celniker S.E., Holt R.A., Evans C.A., Gocayne J.D.,
RA Amanatides P.G., Scherer S.E., Li P.W., Hoskins R.A., Galle R.F.,
RA George R.A., Lewis S.E., Richards S., Ashburner M., Henderson S.N.,
RA Sutton G.G., Wortman J.R., Yandell M.D., Zhang Q., Chen L.X.,
RA Brandon R.C., Rogers Y.H., Blazej R.G., Champe M., Pfeiffer B.D.,
RA Wan K.H., Doyle C., Baxter E.G., Helt G., Nelson C.R., Gabor G.L.,
RA Abril J.F., Agbayani A., An H.J., Andrews-Pfannkoch C., Baldwin D.,
RA Ballew R.M., Basu A., Baxendale J., Bayraktaroglu L., Beasley E.M.,
RA Beeson K.Y., Benos P.V., Berman B.P., Bhandari D., Bolshakov S.,
RA Borkova D., Botchan M.R., Bouck J., Brokstein P., Brottier P.,
RA Burtis K.C., Busam D.A., Butler H., Cadiieu E., Center A., Chandra I.,
RA Cherry J.M., Cawley S., Dahlke C., Davenport L.B., Davies P.,
RA de Pablos B., Delcher A., Deng Z., Mays A.D., Dew I., Dietz S.M.,
RA Dodson K., Doup L.E., Downes M., Dugan-Rocha S., Dunkov B.C., Dunn P.,
RA Durbin K.J., Evangelista C.C., Ferraz C., Ferreira S., Fleischmann W.,
RA Folsler K., Gabrielian A.E., Gaig N.S., Gelbart W.M., Glasser K.,
RA Glodek A., Gong F., Gorrell J.H., Gu Z., Guan P., Harris M.,
RA Harris N.L., Harvey D., Helman T.J., Hernandez J.R., Houck J.,
RA Hostin D., Houston K.A., Howland T.J., Wei M.H., Ibegwam C.,
RA Jalali M., Kalush F., Karpen G.H., Ke Z., Kennison J.A., Ketchum K.A.,
RA Kimmel B.E., Kodira C.D., Kraft C., Kravitz S., Kulp D., Lai Z.,
RA Lasko P., Lei Y., Levitsky A.A., Li J., Li Z., Liang Y., Lin X.,
RA Liu X., Mattei B., McIntosh T.C., McLeod M.P., McPherson D.,
RA Merkulov G., Milshina N.V., Mobarry C., Morris J., Moshrefi A.,
RA Mount S.M., Moy M., Murphy B., Murphy L., Muzny D.M., Nelson D.L.,
RA Nelson D.R., Nelson K.A., Nixon K., Nusskern D.R., Pacieb J.M.,
RA Palazzolo M., Pittman G.S., Pan S., Pollard J., Puri V., Reese M.G.,
RA Reinert K., Remington K., Saunders R.D., Scheeler F., Shen H.,
RA Shue B.C., Siden-Kiamos I., Simpson M., Skupski M.P., Smith T.,
RA Spiers E., Spradling A.C., Stapleton M., Strong R., Sun E., Wang X.,
RA Swirskas R., Tector C., Turner R., Venter E., Wang A.H., Wang X.,
RA Wang Z.Y., Wassarman D.A., Weinstock G.M., Weissenbach J.,
RA Williams S.M., Woodage T., Worley K.C., Wu D., Yang S., Yao Q.A., Ye J.,
RA Yeh R.F., Zaveri J.S., Zhan M., Zhang G., Zhao Q., Zheng L.,
RA Zheng X.H., Zhong F.N., Zhong W., Zhou X., Zhu S., Zhu H.O.,
RA Gibbs R.A., Myers E.W., Rubin G.M., Venter J.C.;
RT "The genome sequence of Drosophila melanogaster.";
RL Science 287:2185-2195(2000).
RN [2]
RP SEQUENCE FROM N.A.
RX MEDLINE=22426055; PubMed=12537568;
RA Celniker S.E., Wheeler D.A., Kronmiller B., Carlson J.W., Halpern A.,
RA Patel S., Adams M., Champe M., Dugan S.P., Frise E., Hodgson A.,
RA George R.A., Hoskins R.A., Laverly T., Muzny D.M., Nelson C.R.,
RA Pacieb J.M., Park S., Pfeiffer B.D., Richards S., Sodergren E.J.,
RA Swirskas R., Tabor P.E., Wan K., Stapleton M., Sutton G.G., Venter C.,
RA Weinstock R., Scherer S.E., Myers E.W., Gibbs R.A., Rubin G.M.;
RT "Finishing a whole-genome shotgun: Release 3 of the Drosophila
RT melanogaster euchromatic genome sequence.";
RL Genome Biol. 3:RESEARCH0079-RESEARCH0079(2002).
RN [3]
RP SEQUENCE FROM N.A.
RX MEDLINE=22426070; PubMed=12537573;
RA Kaminker J.S., Bergman C.M., Kronmiller B., Carlson J., Swirskas R.,
RA Patel S., Frise E., Wheeler D.A., Lewis S.E., Rubin G.M.,
RA Ashburner M., Celniker S.E.;
RT "The transposable elements of the Drosophila melanogaster euchromatin:
RT a genomics perspective.";
RL Genome Biol. 3:RESEARCH0084-RESEARCH0084(2002).
RN [4]
RP SEQUENCE FROM N.A.
RX MEDLINE=22426069; PubMed=12537572;

```


RA Miera S., Crosby M.A., Mungall C.J., Matthews B.B., Campbell K.S.,
RA Hradecky P., Huang Y., Kaninker J.S., Millburn G.H., Prochnik S.E.,
RA Smith C.D., Tupy J.L., Whitfield E.J., Bayraktaroglu L., Berman B.P.,
RA Bettencourt B.R., Ceiniker S.E., de Grey A.D., Drysdale R.A.,
RA Harris N.L., Richter J., Russo S., Schroeder A.J., Shu S.Q.,
RA Stapleton M., Yamada C., Ashburner M., Gelbart W.M., Rubin G.M.,
RA Lewis S.E.;
RT "Annotation of the Drosophila melanogaster euchromatic genome: a
RT systematic review";
RL Genome Biol. 3:RESEARCH0083-RESEARCH0083 (2002).
RN [5]
RP SEQUENCE FROM N.A.
RG FlyBase;
RL Submitted (SEP-2002) to the EMBL/GenBank/DBJ databases.
RN [6]
RP SEQUENCE FROM N.A.
RG FlyBase;
RL Submitted (MAR-2004) to the EMBL/GenBank/DBJ databases.
DR EMBL; AE003642; AAG64704.1; -;
DR GO; GO:0007155; P:cell adhesion; IEA.
DR InterPro; IPR000782; BIGH3_FAS1.
DR Pfam; PF02469; Fasciclin; 2.
DR SMART; SM00554; FAS1; 2.
DR PROSITE; PS02113; FAS1; 2.
SQ SEQUENCE 1853 AA; 201677 MW; 518684872828D53F CRC64;
Query Match 3.3%; Score 14; DB 2; Length 1853;
Best Local Similarity 100.0%; Pred. No. 0.00071;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 322 PTTTTTTTTTTTTT 335
Db 407 PTTTTTTTTTTTTT 420
RESULT 68
Q9NKC9 PRELIMINARY; PRT; 1893 AA.
AC Q9NKC9
DT 01-OCT-2000 (TrEMBLrel. 15, Created)
DT 01-OCT-2000 (TrEMBLrel. 15, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE Hypothetical protein BG:DS01523.2
GN Name:BG:DS01523.2; ORFNames=CG32972;
OS Drosophila melanogaster (fruit fly).
OC Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;
OC Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha;
OC Ephydroidea; Drosophilidae; Drosophila.
OX NCBI_TaxID=7227;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=Berkley;
RX MEDLINE=99403001; PubMed=10471707;
RA Ashburner M., Miera S., Roote J., Lewis S.E., Blazej R., Davis T.,
RA Doyle C., Galle R., George R., Harris N., Hartzell G., Harvey D.,
RA Hong L., Houston K., Hoskins R., Johnson G., Martin C., Moshrefi A.,
RA Palazzolo M., Reese M.G., Spradling A., Tsang G., Wan K., Whitehead K.,
RA Celnik S., Rubin G.M.;
RT "An exploration of the sequence of a 2.9-Mb region of the genome of
RT Drosophila melanogaster: the Adh region.";
RL Genetics 153:179-219 (1999).
RN [2]
RP SEQUENCE FROM N.A.
RC STRAIN=Berkley;
RX Celnik S.E., Agbayani A., Arcaina T.T., Baxter E., Blazej R.G.,
RA Butenhoff C., Champe M., Chavez C., Chew M., Ciesiolka L., Doyle C.M.,
RA Farfan D.E., Galle R., George R.A., Harris N.L., Hoskins R.A.,
RA Houston K.A., Hummasti S.R., Karra K., Kearney L., Kim B., Lee B.,
RA Lewis S., Li P., Lomtan M.A., Mazda P., Moshrefi A.R., Moshrefi M.,
RA Nixon K., Pacleb J.M., Park S., Pfeiffer B., Poon L., Sequeira A.,
RA Sethi H., Snir E., Svirskaas R.R., Wan K.H., Weinburg T., Zhang R.,
RA Zieran L.L., Rubin G.M.;
RT Submitted (MAR-2000) to the EMBL/GenBank/DBJ databases.
RL

DR EMBL; AE003409; AAF44859.1; -;
DR FlyBase; FBgn0028905; CG32972.
DR GO; GO:0007155; P:cell adhesion; IEA.
DR InterPro; IPR000782; BIGH3_FAS1.
DR InterPro; IPR011009; Kinase_like.
DR Pfam; PF02469; Fasciclin; 2.
DR SMART; SM00554; FAS1; 2.
DR PROSITE; PS02113; FAS1; 2.
RW Hypothetical protein.
SQ SEQUENCE 1893 AA; 206483 MW; 2C3152610B858A4D CRC64;
Query Match 3.3%; Score 14; DB 2; Length 1893;
Best Local Similarity 100.0%; Pred. No. 0.00072;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 322 PTTTTTTTTTTTTT 335
Db 447 PTTTTTTTTTTTTT 460
RESULT 69
Q86HN4 PRELIMINARY; PRT; 2208 AA.
ID Q86HN4
AC Q86HN4
DT 01-JUN-2003 (TrEMBLrel. 24, Created)
DT 01-JUN-2003 (TrEMBLrel. 24, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE Hypothetical protein.
OS Dictyostelium discoideum (Slime mold).
OC Eukaryota; Mycetozoa; Dictyosteliida; Dictyostelium.
OX NCBI_TaxID=44689;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=AX4;
RX MEDLINE=22092622; PubMed=12097910; DOI=10.1038/nature00847;
RA Gloeckner G., Eichinger L., Szafranski K., Pachebat J., Dear P.,
RA Lehmann R., Baumgart C., Parra G., April J.F., Guigo R., Kumpf K.,
RA Tunggal B., Cox E., Quail M.A., Platzner M., Rosenthal A., Noegel A.A.;
RT "Sequence and analysis of chromosome 2 of Dictyostelium discoideum.";
RL Nature 418:79-85 (2002).
RN [2]
RP SEQUENCE FROM N.A.
RC STRAIN=AX4;
RA Baumgart C.;
RL Submitted (MAR-2003) to the EMBL/GenBank/DBJ databases.
CC -1- SIMILARITY: Belongs to the ubiquitin-conjugating enzyme family.
DR EMBL; AC116957; AAO52538.1; -;
DR HSP; P51966; 1C4Z.
DR GO; GO:0004840; F:ubiquitin conjugating enzyme activity; IEA.
DR GO; GO:0006512; P:ubiquitin cycle; IEA.
DR InterPro; IPR002083; MATH.
DR InterPro; IPR008974; Traf like.
DR Pfam; PF00917; MATH; 4.
DR Pfam; PF00179; UQ_con; 1.
DR ProDom; PD000461; UBQ_conjugat; 1.
DR SMART; SM00061; MATH; 4.
DR SMART; SM00212; UBCC; 1.
DR PROSITE; PS0144; MATH; 4.
DR PROSITE; PS0127; UBIQUITIN_CONJUGAT_2; 1.
RW Hypothetical protein.
SQ SEQUENCE 2208 AA; 250169 MW; CF247BA9B0E2205C CRC64;
Query Match 3.3%; Score 14; DB 2; Length 2208;
Best Local Similarity 100.0%; Pred. No. 0.00083;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 321 PTTTTTTTTTTTTT 334
Db 1681 PTTTTTTTTTTTTT 1694
RESULT 70

KW Hypothetical protein.
SQ SEQUENCE 56 AA; 6096 MW; 5D1F0B92FE6D17C7 CRC64;

Query Match 3.1%; Score 13; DB 2; Length 56;
Best Local Similarity 100.0%; Pred. No. 0.00038;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 323 TTTTNTTTTTTTTT 335
| | | | | | | | | | | | | | | | | |
Db 24 TTTTNTTTTTTTTT 36

RESULT 74

Q95UY4 PRELIMINARY; PRT; 67 AA.
AC Q95UY4; 01-DEC-2001 (TrEMBLrel. 19, Created)
DT 01-DEC-2001 (TrEMBLrel. 19, Last sequence update)
DT 01-OCT-2002 (TrEMBLrel. 22, Last annotation update)
DE Merozoite surface protein 2 (Fragment).
OS Plasmodium falciparum.
OC Eukaryota; Alveolata; Apicomplexa; Haemosporida; Plasmodium.
OX NCBI_TaxID=5833;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=V333;
RA Hoffmann E.H., Silveira L.A., Tonhosolo R., Pereira F.J.,
RA Ribeiro W.L., Tonon A.P., Marrelli M.T., Kawamoto F., Ferreira M.U.;
RL Submitted (SEP-2000) to the EMBL/GenBank/DBJ databases.
DR EMBL; AY008396; AAG30717.1; -.
KW Merozoite.
FT NON_TER 1 1
FT NON_TER 67 67
SQ SEQUENCE 67 AA; 5732 MW; 6B2B3F43575D87C7 CRC64;

Query Match 3.1%; Score 13; DB 2; Length 67;
Best Local Similarity 100.0%; Pred. No. 0.00038;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 323 TTTTNTTTTTTTTT 335
| | | | | | | | | | | | | | | | | |
Db 55 TTTTNTTTTTTTTT 67

RESULT 75

Q95UY6 PRELIMINARY; PRT; 67 AA.
AC Q95UY6; 01-DEC-2001 (TrEMBLrel. 19, Created)
DT 01-DEC-2001 (TrEMBLrel. 19, Last sequence update)
DT 01-OCT-2002 (TrEMBLrel. 22, Last annotation update)
DE Merozoite surface protein 2 (Fragment).
OS Plasmodium falciparum.
OC Eukaryota; Alveolata; Apicomplexa; Haemosporida; Plasmodium.
OX NCBI_TaxID=5833;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=V57;
RA Hoffmann E.H., Silveira L.A., Tonhosolo R., Pereira F.J.,
RA Ribeiro W.L., Tonon A.P., Marrelli M.T., Kawamoto F., Ferreira M.U.;
RL Submitted (SEP-2000) to the EMBL/GenBank/DBJ databases.
DR EMBL; AY008394; AAG30715.1; -.
KW Merozoite.
FT NON_TER 1 1
FT NON_TER 67 67
SQ SEQUENCE 67 AA; 5706 MW; 6C5E8980203990C4 CRC64;

Query Match 3.1%; Score 13; DB 2; Length 67;
Best Local Similarity 100.0%; Pred. No. 0.00038;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 323 TTTTNTTTTTTTTT 335
| | | | | | | | | | | | | | | | | |

Db 55 TTTTNTTTTTTTTT 67

Search completed: June 28, 2005, 10:20:31
Job time : 112.051 secs

THIS PAGE BLANK (USPTO)

GenCore version 5.1.6
Copyright (c) 1993 - 2005 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: June 28, 2005, 09:54:53 ; Search time 114.43 Seconds

(without alignments)
1429.691 Million cell updates/sec

Title: US-10-622-237-4

Perfect score: 423

Sequence: 1 APPGLRLRLLLLLLSAAL.....TAINAEGQGNSEKKEYF 423

Scoring table:

Gapop 60.0 , Gapext 60.0

Searched: 2105692 seqs, 386760381 residues

Word size : 0

Total number of hits satisfying chosen parameters: 2105692

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 150 summaries

Database : A Geneseq_16Dec04:*

1: Geneseqp1980s:*

2: Geneseqp1990s:*

3: Geneseqp2000s:*

4: Geneseqp2001s:*

5: Geneseqp2002s:*

6: Geneseqp2003as:*

7: Geneseqp2003bs:*

8: Geneseqp2004s:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | ID | Description |
|------------|-------|-------------|--------|----|-------------|
| 1 | 423 | 100.0 | 423 | 3 | RAY45093 |
| 2 | 396 | 93.6 | 397 | 8 | ABO84563 |
| 3 | 150 | 35.5 | 364 | 3 | ABAB25586 |
| 4 | 150 | 35.5 | 364 | 6 | ADA27058 |
| 5 | 150 | 35.5 | 364 | 8 | ADE86588 |
| 6 | 150 | 35.5 | 370 | 5 | ADR41469 |
| 7 | 150 | 35.5 | 402 | 4 | RAM23691 |
| 8 | 150 | 35.5 | 414 | 3 | RAY53028 |
| 9 | 150 | 35.5 | 425 | 8 | ABO84564 |
| 10 | 150 | 35.5 | 440 | 2 | RAY17830 |
| 11 | 150 | 35.5 | 440 | 3 | ABAB01321 |
| 12 | 150 | 35.5 | 440 | 4 | AAU29040 |
| 13 | 150 | 35.5 | 440 | 6 | ABUS8416 |
| 14 | 150 | 35.5 | 440 | 6 | ABU87964 |
| 15 | 150 | 35.5 | 440 | 6 | ABU84279 |
| 16 | 150 | 35.5 | 440 | 6 | ABR66153 |
| 17 | 150 | 35.5 | 440 | 6 | ABR65543 |
| 18 | 150 | 35.5 | 440 | 6 | ABU99483 |
| 19 | 150 | 35.5 | 440 | 6 | ABUS5930 |
| 20 | 150 | 35.5 | 440 | 6 | ABU82722 |
| 21 | 150 | 35.5 | 440 | 6 | ABU89843 |
| 22 | 150 | 35.5 | 440 | 6 | ABR68092 |
| 23 | 150 | 35.5 | 440 | 6 | ABU96145 |
| 24 | 150 | 35.5 | 440 | 6 | ABU92576 |
| 25 | 150 | 35.5 | 440 | 6 | ABO08653 |

| | | | | | | |
|----|-----|------|-----|---|-----------|-----------|
| 26 | 150 | 35.5 | 440 | 6 | ABO02705 | Human sec |
| 27 | 150 | 35.5 | 440 | 6 | ABR74859 | Human sec |
| 28 | 150 | 35.5 | 440 | 6 | ABR94621 | Human sec |
| 29 | 150 | 35.5 | 440 | 6 | ABU60240 | Human PRO |
| 30 | 150 | 35.5 | 440 | 6 | ABU85594 | Human PRO |
| 31 | 150 | 35.5 | 440 | 6 | ABU98754 | Novel hum |
| 32 | 150 | 35.5 | 440 | 6 | ABU97969 | Novel hum |
| 33 | 150 | 35.5 | 440 | 6 | ABU91675 | Novel hum |
| 34 | 150 | 35.5 | 440 | 6 | ABU89368 | Human PRO |
| 35 | 150 | 35.5 | 440 | 6 | ABU86209 | Human sec |
| 36 | 150 | 35.5 | 440 | 6 | ABU67422 | Human sec |
| 37 | 150 | 35.5 | 440 | 6 | ABU80450 | Human PRO |
| 38 | 150 | 35.5 | 440 | 6 | ABR99368 | Human sec |
| 39 | 150 | 35.5 | 440 | 6 | ABR98758 | Human sec |
| 40 | 150 | 35.5 | 440 | 6 | ABO16281 | Human sec |
| 41 | 150 | 35.5 | 440 | 6 | ABR92181 | Human sec |
| 42 | 150 | 35.5 | 440 | 6 | ABO18822 | Human sec |
| 43 | 150 | 35.5 | 440 | 6 | ABR78243 | Human sec |
| 44 | 150 | 35.5 | 440 | 6 | ABU64926 | Human sec |
| 45 | 150 | 35.5 | 440 | 6 | ABU84979 | Novel hum |
| 46 | 150 | 35.5 | 440 | 6 | ABO00118 | Novel hum |
| 47 | 150 | 35.5 | 440 | 6 | ABO11450 | Human sec |
| 48 | 150 | 35.5 | 440 | 6 | ABO02095 | Human sec |
| 49 | 150 | 35.5 | 440 | 6 | ABU58360 | Novel hum |
| 50 | 150 | 35.5 | 440 | 6 | ABU88669 | Novel hum |
| 51 | 150 | 35.5 | 440 | 6 | ABU83384 | Human sec |
| 52 | 150 | 35.5 | 440 | 6 | ABO06185 | Novel hum |
| 53 | 150 | 35.5 | 440 | 6 | ABR59201 | Human sec |
| 54 | 150 | 35.5 | 440 | 6 | ABO09263 | Human sec |
| 55 | 150 | 35.5 | 440 | 6 | ABO119127 | Novel hum |
| 56 | 150 | 35.5 | 440 | 6 | ABO11145 | Human sec |
| 57 | 150 | 35.5 | 440 | 6 | ABR66763 | Human sec |
| 58 | 150 | 35.5 | 440 | 6 | ABO15976 | Human sec |
| 59 | 150 | 35.5 | 440 | 6 | ABO13682 | Human sec |
| 60 | 150 | 35.5 | 440 | 6 | ABU57246 | Human PRO |
| 61 | 150 | 35.5 | 440 | 6 | ABU65585 | Human sec |
| 62 | 150 | 35.5 | 440 | 6 | ABO07433 | Human PRO |
| 63 | 150 | 35.5 | 440 | 6 | ABO03620 | Human sec |
| 64 | 150 | 35.5 | 440 | 6 | ABR67088 | Human sec |
| 65 | 150 | 35.5 | 440 | 6 | ABO15671 | Human sec |
| 66 | 150 | 35.5 | 440 | 6 | ABU55952 | Human sec |
| 67 | 150 | 35.5 | 440 | 6 | ABU65280 | Human PRO |
| 68 | 150 | 35.5 | 440 | 6 | ABU95225 | Novel hum |
| 69 | 150 | 35.5 | 440 | 6 | ABU71128 | Human PRO |
| 70 | 150 | 35.5 | 440 | 6 | ABO07738 | Human PRO |
| 71 | 150 | 35.5 | 440 | 6 | ABR69979 | Human sec |
| 72 | 150 | 35.5 | 440 | 6 | ABR69312 | Human sec |
| 73 | 150 | 35.5 | 440 | 6 | ABO01453 | Human PRO |
| 74 | 150 | 35.5 | 440 | 6 | ABU81255 | Human PRO |
| 75 | 150 | 35.5 | 440 | 6 | ABR60052 | Human sec |
| 76 | 150 | 35.5 | 440 | 6 | ABR67787 | Human sec |
| 77 | 150 | 35.5 | 440 | 6 | ABR65175 | Human sec |
| 78 | 150 | 35.5 | 440 | 6 | ABR68397 | Human sec |
| 79 | 150 | 35.5 | 440 | 6 | ABR71809 | Human PRO |
| 80 | 150 | 35.5 | 440 | 6 | ABU85289 | Human PRO |
| 81 | 150 | 35.5 | 440 | 6 | ABU88979 | Human sec |
| 82 | 150 | 35.5 | 440 | 6 | ABU83059 | Human sec |
| 83 | 150 | 35.5 | 440 | 6 | ABU94915 | Novel hum |
| 84 | 150 | 35.5 | 440 | 6 | ABU90463 | Novel hum |
| 85 | 150 | 35.5 | 440 | 6 | ABU83974 | Human sec |
| 86 | 150 | 35.5 | 440 | 6 | ABU93625 | Novel hum |
| 87 | 150 | 35.5 | 440 | 6 | ABR64870 | Human sec |
| 88 | 150 | 35.5 | 440 | 6 | ABR68702 | Human sec |
| 89 | 150 | 35.5 | 440 | 6 | ABO06518 | Human sec |
| 90 | 150 | 35.5 | 440 | 6 | ABR99063 | Human sec |
| 91 | 150 | 35.5 | 440 | 6 | ABU56311 | Human PRO |
| 92 | 150 | 35.5 | 440 | 6 | ABU56947 | Human PRO |
| 93 | 150 | 35.5 | 440 | 6 | ABU85899 | Novel hum |
| 94 | 150 | 35.5 | 440 | 6 | ABU82186 | Novel hum |
| 95 | 150 | 35.5 | 440 | 6 | ABU87197 | Human PRO |
| 96 | 150 | 35.5 | 440 | 6 | ABU83669 | Human sec |
| 97 | 150 | 35.5 | 440 | 6 | ABO08043 | Human PRO |
| 98 | 150 | 35.5 | 440 | 6 | ABU60351 | Novel hum |

| OS | Mus sp. | Key | Location/Qualifiers |
|----|--------------------|---------------|-------------------------------|
| XX | Abu81754 Novel hum | Key | 1. 356 |
| XX | Abu65918 Novel hum | Domain | /label= Extracellular_domain |
| FT | Abu59747 Human sec | Modified-site | 49. .51 |
| FT | Abu93935 Novel hum | Modified-site | /note= "N-Glycosylation site" |
| FT | Abu99788 Novel hum | Modified-site | 83. .85 |
| FT | Abu66458 Human sec | Modified-site | /note= "N-Glycosylation site" |
| FT | Abu90876 Human sec | Modified-site | 95. .97 |
| FT | Abu94303 Human PRO | Modified-site | /note= "N-Glycosylation site" |
| FT | Abu79185 Human PRO | Modified-site | 147. .149 |
| FT | Abu86514 Human sec | Modified-site | /note= "N-Glycosylation site" |
| FT | Abu86819 Novel hum | Modified-site | 286. .288 |
| FT | Abu94608 Human PRO | Modified-site | /note= "N-Glycosylation site" |
| FT | Abu04535 Human PRO | Modified-site | 290. .292 |
| FT | Abu70284 Human sec | Domain | /note= "N-Glycosylation site" |
| FT | Abu98449 Human PRO | Domain | /label= Transmembrane_domain |
| FT | Abu65848 Human sec | Domain | /label= Cytoplasmic_domain |
| FT | Abu64565 Human sec | | |
| FT | Abu79490 Human PRO | | |
| FT | Abu92881 Human sec | | |
| FT | Abu95840 Human PRO | | |
| FT | Abu91060 Novel hum | | |
| FT | Abu90153 Novel hum | | |
| XX | Abu09568 Human sec | | |
| XX | Abu10840 Human sec | | |
| XX | Abu70894 Human sec | | |
| XX | Abu87502 Human PRO | | |
| XX | Abu91370 Human PRO | | |
| XX | Abu84584 Human sec | | |
| XX | Abu69674 Human sec | | |
| XX | Abu80051 Human PRO | | |
| XX | Abu93320 Human PRO | | |
| XX | Abu09873 Human sec | | |
| XX | Abu08958 Human sec | | |
| XX | Abu10526 Human sec | | |
| XX | Abu11312 Human pro | | |
| XX | Abu67131 Human PRO | | |
| XX | Abu95535 Human PRO | | |
| XX | Abu96744 Novel hum | | |
| XX | Abu70589 Human sec | | |
| XX | Abu04940 Novel hum | | |
| XX | Abu08348 Human sec | | |
| XX | Abu05555 Human sec | | |
| XX | Abu73944 Human sec | | |
| XX | Abu95536 Human sec | | |
| XX | Abu80833 Human sec | | |
| XX | Abu81138 Human sec | | |
| XX | Abu00834 Human sec | | |
| XX | Abu88436 Human sec | | |
| XX | Abu77257 Human sec | | |
| XX | Abu28741 Human sec | | |
| XX | Abu31486 Human sec | | |
| XX | Abu07903 Human sec | | |

Query Match 100.0%; Score 423; DB 3; Length 423;
 Best Local Similarity 100.0%; Pred. No. 0;
 Matches 423; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

1 APPGRLRLLLLLLSAALIPTGDQNLFTKDVTVIEGEVATISQVKNKSDSDSVIQLLN 60
 |||||
 1 APPGRLRLLLLLLSAALIPTGDQNLFTKDVTVIEGEVATISQVKNKSDSDSVIQLLN 60
 |||||

61 PNQRTIYPRDFPLKXDRFQLNFSSSELKSLNTVNSISDEGRYFCOLYTPDPPESYTTI 120
 |||||
 61 PNQRTIYPRDFPLKXDRFQLNFSSSELKSLNTVNSISDEGRYFCOLYTPDPPESYTTI 120
 |||||

RESULT 1
 AAY45093
 ID AAY45093 standard; protein; 423 AA.
 XX
 AC AAY45093;
 XX
 DT 31-MAY-2000 (first entry)
 XX
 DE Mouse lymphoid derived dendritic cell adhesion molecule.
 XX
 KW Lymphoid derived dendritic cell adhesion molecule; LDCAM; mouse; B7-1;
 KW B7-1; T cell proliferation; natural killer cell; NK; tumour cell;
 KW Biological activity; quality control reagent; treatment; inflammation;
 KW immune system disorder; autoimmune; viral infection; infectious disease;
 KW organ transplant rejection; bone marrow; modulator; immune response.
 XX

QY 121 TVLVPPNMLDIQKOTAVEGEIEVNCCTAMASKPATTIRFWKGNKELKSKSEVWSOM 180
 DB 121 TVLVPPNMLDIQKOTAVEGEIEVNCCTAMASKPATTIRFWKGNKELKSKSEVWSOM 180
 QY 181 YTVTSQMLKVKHEDDGVPCVICOVHPAVTGNLQRYLEVQYKQVHIQMTYPLQGLTR 240
 DB 181 YTVTSQMLKVKHEDDGVPCVICOVHPAVTGNLQRYLEVQYKQVHIQMTYPLQGLTR 240
 QY 241 EGDFAELTCEAIGKQPOVWVVRVDEMPQHAVLSPNLFINNLTNDNGTYRCEASNI 300
 DB 241 EGDFAELTCEAIGKQPOVWVVRVDEMPQHAVLSPNLFINNLTNDNGTYRCEASNI 300
 QY 301 VGKASDYMVLVYDPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 360
 DB 301 VGKASDYMVLVYDPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 360
 QY 361 GVAVVVFAMLCILLIILGRYFARHKGTYFTHEAKGADDAADATAIINAEQGNSEKK 420
 DB 361 GVAVVVFAMLCILLIILGRYFARHKGTYFTHEAKGADDAADATAIINAEQGNSEKK 420
 QY 421 EYF 423
 DB 421 EYF 423

RESULT 2
 ABO84563
 ID ABO84563 standard; protein; 397 AA.
 AC ABO84563;
 XX
 XX 18-NOV-2004 (first entry)
 XX Mouse cancer-associated protein MP16-039.1.
 XX Mouse; cancer-associated protein; cytostatic; cancer; leukaemia;
 KW lymphoma; CAP.
 KW
 XX Mus musculus.
 XX
 XX W02004074320-A2.
 XX
 XX 02-SEP-2004.
 XX
 XX 17-FEB-2004; 2004WO-US004730.
 XX
 XX 14-FEB-2003; 2003US-00367094.
 PR 14-MAR-2003; 2003US-00388838.
 PR 15-APR-2003; 2003US-00417375.
 PR 13-JUN-2003; 2003US-00461862.
 PR 15-SEP-2003; 2003US-00663431.
 PR 15-DEC-2003; 2003US-00737318.
 XX
 XX (SAGR-) SAGRES DISCOVERY INC.
 XX
 XX Morris DW, Morris DW, Malandro MS;
 XX
 XX WPI: 2004-652914/63.
 DR N-PSDB; ABD32790.
 XX

XX New isolated cancer-associated polynucleotides and polypeptides useful
 PT for diagnosing, preventing or treating cancers, especially lymphoma and
 PT leukemia, or in screening for agents that modulate cancer.

XX disclosure; seqid 419; 310pp; English.

XX The invention relates to an isolated nucleic acid comprising at least 10
 CC contiguous nucleotides of any of the 233 polynucleotide sequences given
 CC in the specification, or its complement. The nucleic acids encode cancer-
 CC associated proteins. Also included are an expression vector comprising
 CC the isolated nucleic acid cited above, a host cell comprising the above
 CC recombinant nucleic acid or expression vector, a microarray for detecting

CC a cancer-associated (CA) nucleic acid comprising at least one probe
 CC comprising at least 10 contiguous nucleotides of any of the above-
 CC mentioned nucleotide sequences, an isolated polypeptide (encoded within
 CC an open reading frame of a CA sequence selected from any of the 95
 CC polynucleotide sequences as mentioned in the specification, or its
 CC complement), an isolated antibody, (or its antigen binding fragment) that
 CC binds to the above polypeptide, a hybridoma that produces the above
 CC monoclonal antibody, a pharmaceutical composition comprising the above
 CC antibody and a pharmaceutical excipient, a kit for detecting cancer
 CC cells comprising the antibody cited above, methods for diagnosing cancer
 CC or for detecting the presence or absence of cancer cells in an
 CC individual, a method for inhibiting growth of cancer cells in an
 CC individual, a method for delivering a therapeutic agent to cancer cells
 CC in an individual, an electronic library comprising the above
 CC polynucleotide or polypeptide (or their fragments), methods of screening
 CC for anticancer activity or for a bioactive agent capable of modulating
 CC the activity of a CA protein (CAP), methods for detecting cancer
 CC associated with expression of a polypeptide in a test cell sample, a
 CC method for treating cancers and a method for inhibiting the expression of
 CC CA gene in a cell. The composition and methods are useful for detecting,
 CC diagnosing, preventing and treating cancers, especially lymphoma and
 CC leukaemia. These may also be used in screening for agents that modulate
 CC cancer. The present sequence is a mouse CAP protein sequence. Note: The
 CC sequence data for this patent did not form part of the printed
 CC specification, but was obtained in electronic format directly from WIPO
 CC at ftp.wipo.int/pub/published_pct_sequences

XX SQ Sequence 397 AA;

Query Match 93.6%; Score 396; DB 8; Length 397;
 Best Local Similarity 100.0%; Pred. No. 0;
 Matches 396; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 28 NLFTKDVTVIEGEVATISQVKNKSDSVIQLLNNRQTIYFRFRPLKDSRFOLLNFS 87
 DB 1 NLFTKDVTVIEGEVATISQVKNKSDSVIQLLNNRQTIYFRFRPLKDSRFOLLNFS 60
 QY 88 ELKVSILTNVSIISDEGRYFCOLYTDPPQESYTTITVLVPPNMLDIQKOTAVEGEIEVN 147
 DB 61 ELKVSILTNVSIISDEGRYFCOLYTDPPQESYTTITVLVPPNMLDIQKOTAVEGEIEVN 120
 QY 148 CTAMASKPATTIRFWKGNKELKSKSEVWSDMYTVTSQLMLKVKHEDDGVPCVICOV 207
 DB 121 CTAMASKPATTIRFWKGNKELKSKSEVWSDMYTVTSQLMLKVKHEDDGVPCVICOV 180
 QY 208 AVTGNLQRYLEVQYKQVHIQMTYPLQGLTREGDAFELTCEAIGKQPOVMTWVRVDD 267
 DB 181 AVTGNLQRYLEVQYKQVHIQMTYPLQGLTREGDAFELTCEAIGKQPOVMTWVRVDD 240
 QY 268 EMPQHAVLSPNLFINNLTNDNGTYRCEASNIIVGKASDYMVLVYDPTTIPPTTTT 327
 DB 241 EMPQHAVLSPNLFINNLTNDNGTYRCEASNIIVGKASDYMVLVYDPTTIPPTTTT 300
 QY 328 TTTTTTTTTTITITDSRAGEEGTIGAVDHAVIGVAVVVFAMLCILLIILGRYFARHKG 387
 DB 301 TTTTTTTTTTITITDSRAGEEGTIGAVDHAVIGVAVVVFAMLCILLIILGRYFARHKG 360
 QY 388 YFTHEAKGADDAADATAIINAEQGNSEKKEYF 423
 DB 361 YFTHEAKGADDAADATAIINAEQGNSEKKEYF 396

RESULT 3
 AAB25586
 ID AAB25586 standard; protein; 364 AA.
 XX
 XX AAB25586;
 XX
 XX 21-NOV-2000 (first entry)
 XX Protein encoded by human secreted protein gene #11.
 XX Secreted protein; immunosuppressant; anti-inflammatory; antiarthritic;
 KW

KW antirheumatic, dermatological; antiproliferative; antiarteriosclerotic;
KW anticancer; vulnary; antiviral; antibacterial; antifungal;
KW immune disorder; Addison's disease; rheumatoid arthritis; dermatitis;
KW multiple sclerosis; inflammatory disorder; inflammatory bowel disease;
KW Crohn's disease; nephritis; hyperproliferative disorder;
KW cardiovascular disorder; coronary arteriosclerosis; myocarditis; cancer;
KW melanoma; lymphoma; wound healing; human.
XX Homo sapiens.
XX WO200029435-A1.
XX 25-MAY-2000.
XX 27-OCT-1999; 99WO-US025031.
XX 28-OCT-1998; 98US-0105971P.
XX (HUMA-) HUMAN GENOME SCI INC.
XX Ni J, Ruben SM, Olsen HS, Young PE, Kenny JJ, Moore PA, Wei Y;
PI Greene JM;
XX
DR WPI; 2000-387742/33.
DR N-PSDB; AAA80616.
XX Isolated nucleic acid molecules encoding human secreted proteins are used
PT for the prevention, amelioration and treatment of autoimmune, cancer,
PT inflammatory, hyperproliferative and cardiovascular disorders, cancer,
PT wounds, and infectious diseases.
XX
XX Claim 1; Fig 28A-B; 803pp; English.
XX
XX The present invention relates to 12 secreted human proteins and the
CC nucleotide sequences encoding them. The polynucleotide sequences given in
CC AAA80606-A80623 encode the 12 secreted protein sequences given in
CC AAB25576-B25593. The human secreted proteins have various activities
CC dependent on the tissues in which they are expressed. Examples of the
CC activities of the proteins include: immunosuppressant; anti-inflammatory;
CC antirheumatic; antirheumatic, dermatological; antiproliferative;
CC antiarteriosclerotic; anticancer; vulnary; antiviral; antibacterial;
CC and antifungal activity. The proteins, polypeptides, agonists and
CC antagonists may be used to treat prevent and/or diagnose various disease,
CC disorders and conditions examples of which include: immune disorders e.g.
CC Addison's disease, rheumatoid arthritis, dermatitis, and multiple
CC sclerosis; inflammatory disorders e.g. inflammatory bowel disease,
CC Crohn's disease and nephritis; hyperproliferative disorders such as
CC paraproteinemia and purpura; cardiovascular disorders e.g. coronary
CC arteriosclerosis and myocarditis; cancer e.g. melanoma and lymphoma. The
CC proteins and polynucleotide sequences may also be used in wound healing
CC and the treatment of infectious diseases. The human secreted protein gene
CC #11 and protein sequences are represented in sequences AAA80616 and
CC AAB25586. Sequences AAA80677-A80682 represent genes related to the
CC secreted protein gene#11
XX
XX Sequence 364 AA;
XX
XX Query Match 35.5%; Score 150; DB 3; Length 364;
XX Best Local Similarity 100.0%; Pred. No. 6.5e-135;
XX Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 16 SAALPTGQQLFTKDVTVIGEVATISQVKNKSDSVIQLNPNRQTIYDFRPLK 75
DB 34 SAALPTGQQLFTKDVTVIGEVATISQVKNKSDSVIQLNPNRQTIYDFRPLK 93
QY 76 DSRFQLNFFSSSLKSLTNVTSIDEGRYFCQLYTDPQSSYTTITVLPNRLMIDIQK 135
DB 94 DSRFQLNFFSSSLKSLTNVTSIDEGRYFCQLYTDPQSSYTTITVLPNRLMIDIQK 153
QY 136 DTAVEGEIEVNCNTAMASKPATIRWPKGN 165
DB 154 DTAVEGEIEVNCNTAMASKPATIRWPKGN 183

RESULT 4

ADA27058

ID ADA27058 standard; protein; 364 AA.

XX ADA27058;

AC ADA27058;

XX 20-NOV-2003 (first entry)

XX Human novel secreted protein from cDNA HOUJ81 #1.

XX cytostatic; antiinflammatory; immunomodulator; neuroprotective;
KW hemostatic; gene therapy; cancer; inflammation; immune disorder;
KW neurological disorder; blood clotting disorder; food additive;
KW preservative; human; secreted protein.
XX
OS Homo sapiens.
XX US2003055231-A1.
XX 20-MAR-2003.
XX 29-OCT-2001; 2001US-00984130.
XX 28-OCT-1998; 98US-0105971P.
XX 27-OCT-1999; 99WO-US025031.
XX 19-APR-2000; 2000US-0198407P.
XX 30-OCT-2000; 2000US-0243792P.
XX 18-APR-2001; 2001US-00836353.
XX
PA (NIJ)/ NI J.
PA (YOUNG) YOUNG P E.
PA (KENN) KENNY J J.
PA (OLSEN) OLSEN H S.
PA (MOORE) MOORE P A.
PA (WEI) WEI Y.
PA (GREENE) GREENE J M.
PA (RUBEN) RUBEN S M.
PA (LIU) LIU D.
PA (CROCK) CROCKER P R.
XX
XX NI J, Young PE, Kenny JJ, Olsen HS, Moore PA, Wei Y, Greene JM;
PI Ruben SM, Liu D, Crocker PR;
XX WPI: 2003-567103/53.
XX N-PSDB; ADA27040.
XX
XX New human secreted nucleic acid molecules and polypeptides, useful for
PT preventing, treating, or ameliorating a medical condition, such as
PT cancer, inflammation, immune disorders, neurological and blood clotting
PT disorders.
XX
XX Claim 11; Fig 28; 454pp; English.
XX
XX The invention relates to an isolated nucleic molecule that is at least
CC 95% identical to 18 human cDNA sequences representing 12 novel genes
CC encoding secreted proteins or a polynucleotide fragment of the cDNA
CC sequence contained in American Type Culture Collection (ATCC) deposit No.
CC defined in the specification, its species homologue, a variant or allelic
CC variant of the polynucleotide having a polynucleotide capable of
CC hybridising under conditions the polynucleotide, where the polynucleotide
CC does not hybridise under stringent conditions to a nucleic acid molecule
CC having a nucleotide sequence of only A or T residues. Also included are
CC recombinant vectors, host cells (for producing the polypeptide), the
CC secreted polypeptide (comprising a sequence that is at least 95%
CC identical to a polypeptide fragment, domain, epitope, full-length
CC protein, variant, allelic variant or species homologue), antibodies that
CC specifically bind to the polypeptides, diagnosing, treating, preventing
CC or ameliorating a medical condition by administering the polynucleotide
CC or the polypeptide, the gene corresponding to the cDNA sequence and
CC identifying an activity in a biological assay (by expressing the cDNA
CC sequence in a cell, isolating the supernatant, and detecting an activity
CC in a biological assay and identifying the protein in the supernatant

CC having the activity). The polypeptides, nucleic acids and antibodies are
 CC useful for diagnosing a pathological condition or a susceptibility to a
 CC pathological condition, for preventing, treating, or ameliorating a
 CC medical condition, such as cancer, inflammation and other immune
 CC disorders, neurological and blood clotting disorders (many examples are
 CC given in the specification). The nucleic acids are also useful for
 CC chromosome identification, radiation hybrid mapping or long-range
 CC restriction mapping. The polypeptides and antibodies are useful for
 CC providing immunological probes for differential identification of the
 CC tissues immunohistochemistry assays. The polypeptide, polynucleotide,
 CC agonist or antagonist may also be used as a food additive or preservative
 CC to increase or decrease storage capabilities, fat content or other
 CC nutritional components. The present is a secreted protein of the
 CC invention.

XX SQ Sequence 364 AA;
 Query Match 35.5%; Score 150; DB 6; Length 364;
 Best Local Similarity 100.0%; Pred. No. 6.5e-135;
 Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 16 SAAALPTGQNLFTKDVTVIEGEVATISQVKNKSDSVIQLNPNRQTIYFRDPRPLK 75
 DB 34 SAAALPTGQNLFTKDVTVIEGEVATISQVKNKSDSVIQLNPNRQTIYFRDPRPLK 93
 QY 76 DSRFQLNFSSELKVSLSLTVNSISDEGRYFCQLYTDPQESYTTITVLVPPRNLMDIOK 135
 DB 94 DSRFQLNFSSELKVSLSLTVNSISDEGRYFCQLYTDPQESYTTITVLVPPRNLMDIOK 153
 QY 136 DTAVEGEIEVNCVTAMASKPATIRWFKGN 165
 DB 154 DTAVEGEIEVNCVTAMASKPATIRWFKGN 183

RESULT 5
 ADE86588
 ID ADE86588 standard; protein; 364 AA.
 AC ADE86588;
 XX
 XX 29-JAN-2004 (first entry)
 DT
 DE Novel human secreted protein #11.
 XX
 KW human; secreted protein; cancer; liver disorder; hepatitis;
 KW neural disorder; Alzheimer's disease.
 XX
 OS Homo sapiens.
 XX US2003129685-A1.
 PN
 PD 10-JUL-2003.
 XX
 PF 18-APR-2001; 2001US-00836353.
 XX
 PR 28-OCT-1998; 98US-0105971P.
 PR 27-OCT-1999; 99WO-US025031.
 PR 19-APR-2000; 2000US-0198407P.
 XX
 XX (NIJJ/) NI J.
 PA (YOUN/) YOUNG P E.
 PA (KENN/) KENNY J J.
 PA (OLSE/) OLSEN H S.
 PA (MOOR/) MOORE P A.
 PA (WEIY/) WEI Y.
 PA (GREE/) GREENE J M.
 PA (RUBE/) RUBEN S M.
 XX
 XX Ni J, Young PE, Kenny JJ, Olsen HS, Moore PA, Wei Y, Greene JM;
 PI Ruben SM;
 XX
 XX WPI; 2004-020335/02.
 DR N-PSDB; ADE86570.
 DR

XX New nucleic acid molecule, useful for preparing a medicament for
 PT preventing, treating or ameliorating a medical condition e.g. cancer,
 PT liver disorders or neural disorders.
 XX
 PS Claim 11; SEQ ID NO 39; 380pp; English.
 XX
 CC The invention relates to an isolated nucleic acid sequence, or its
 CC allelic variant, a fragment of the cDNA sequence, or its fragment,
 CC domain, epitope or species homologue. The nucleic acid is useful for
 CC preparing a medicament for preventing, treating or ameliorating a medical
 CC condition e.g. cancer, liver disorders such as hepatitis or neural
 CC disorders such as Alzheimer's disease. The present sequence represents
 CC the amino acid sequence of a novel human secreted protein.

XX SQ Sequence 364 AA;
 Query Match 35.5%; Score 150; DB 8; Length 364;
 Best Local Similarity 100.0%; Pred. No. 6.5e-135;
 Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 16 SAAALPTGQNLFTKDVTVIEGEVATISQVKNKSDSVIQLNPNRQTIYFRDPRPLK 75
 DB 34 SAAALPTGQNLFTKDVTVIEGEVATISQVKNKSDSVIQLNPNRQTIYFRDPRPLK 93
 QY 76 DSRFQLNFSSELKVSLSLTVNSISDEGRYFCQLYTDPQESYTTITVLVPPRNLMDIOK 135
 DB 94 DSRFQLNFSSELKVSLSLTVNSISDEGRYFCQLYTDPQESYTTITVLVPPRNLMDIOK 153
 QY 136 DTAVEGEIEVNCVTAMASKPATIRWFKGN 165
 DB 154 DTAVEGEIEVNCVTAMASKPATIRWFKGN 183

RESULT 6
 ADR41469
 ID ADR41469 standard; protein; 370 AA.
 AC ADR41469;
 XX
 XX 07-OCT-2004 (first entry)
 DT
 DE Human CD-like molecule HATCZ07, SEQ ID NO:268.
 XX
 KW Human; CD-like molecule; cluster of differentiation; diagnosis;
 KW prevention; immune disorder; immunodeficiency; autoimmune disorder;
 KW blood-related disorder; haematological disorder; haemostatic disorder;
 KW thrombolytic disorder; hyperproliferative disorder; cancer; tumour;
 KW apoptotic disorder; cardiovascular disorder; respiratory disorder;
 KW angiogenic disorder; neovascularisation; neurological disorder;
 KW endocrine disorder; reproductive system disorder; infectious disease;
 KW gastrointestinal disorder; drug screening; tissue regeneration;
 KW chemotaxis; gene therapy; antibody therapy; drug targeting;
 KW chromosome mapping; forensic analysis; immunophenotyping; cytostatic;
 KW haemostatic; tranquiliser; vulnery; antiinflammatory; nephrotropic;
 KW candiant; antiallergic; anti-HIV; antirheumatic; antiarthritic;
 KW antipsoriatic; immunosuppressive; vasotropic; neurotropic; neuroprotective;
 KW antithyroid; thyromimetic; gynaecological; virucide; hepatotropic;
 KW antibacterial; dermatological; chromosome 11q23.2.
 XX
 OS Homo sapiens.
 XX
 XX WO200226930-A2.
 XX
 XX 04-APR-2002.
 PD
 XX 25-SEP-2001; 2001WO-US029838.
 PF
 XX 26-SEP-2000; 2000US-0235484P.
 PR
 XX (HUMA-) HUMAN GENOME SCI INC.
 PA
 XX Rosen CA, Birse CE;
 PI

XX WPI; 2002-405050/43.
DR N-PSDB; ADR41293.
XX Novel polynucleotides and polypeptides useful for treating, preventing or
PT ameliorating cardiovascular, renal, neurovascular, and autoimmune
PT disorders.
XX Claim 11; SEQ ID NO 268; 1243pp; English.
PS PS
XX The invention relates to 167 novel human CD (cluster of differentiation)-
CC like molecules (ADR41388-ADR41563) and to cDNAs encoding them (seqid:11)-
XX Sequence 370 AA;
SQ Query Match 35.5%; Score 150; DB 5; Length 370;
Best Local Similarity 100.0%; Pred. No. 6.6e-135;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 16 SAAALPTGQGNLFTKDVTVIEGEVATISQVKNKSDSDSVIQLLNNRQTIYFRDPRPLK 75
DB 42 SAAALPTGQGNLFTKDVTVIEGEVATISQVKNKSDSDSVIQLLNNRQTIYFRDPRPLK 101
QY 76 DSRFQLLNFSSSELKVSLSLTNVSISDEGRYFCQLYTDPPOESYTTITVLVPPRLMIDIQ 135
DB 102 DSRFQLLNFSSSELKVSLSLTNVSISDEGRYFCQLYTDPPOESYTTITVLVPPRLMIDIQ 161
QY 136 DTAVEGEIEVNCNTAMASKPATIRWFKGN 165
DB 162 DTAVEGEIEVNCNTAMASKPATIRWFKGN 191
RESULT 7
AAM23691
ID AAM23691 standard; protein; 402 AA.
AC AAM23691;
DT 12-OCT-2001 (first entry)
XX Human EST encoded protein SEQ ID NO: 1216.
XX Human; sheep; pig; cow; fruit fly; yeast; hamster; macaque; horse;
KW tomato; monkey; dog; sea urchin; expressed sequence tag; EST;
KW diagnostics; forensic test; gene mapping; genetic disorder; biodiversity;
KW gene therapy; nutrition.
XX Homo sapiens.
OS WO200154477-A2.
PN 02-AUG-2001.
XX 25-JAN-2001; 2001WO-US002687.
XX 25-JAN-2000; 2000US-00491404.
PR 17-JUL-2000; 2000US-00617746.
PR 03-AUG-2000; 2000US-00631451.
PR 15-SEP-2000; 2000US-00663870.
XX (HYSE-) HYSEQ INC.
XX Tang YT, Liu C, Zhou P, Qian XB, Wang Z, Chen R, Asundi V;
PI Cao Y, Drmanac RA, Zhang J, Werhman T;
XX WPI; 2001-476164/51.
DR N-PSDB; AAH98350.
XX Isolated polypeptide for treatment of diseases, diagnostics, raising
PT antibodies and research use.
XX Claim 20; Page 877-878; 1275pp; English.
PS
XX

CC The present invention provides the protein and coding sequences of novel
CC proteins from a variety of organisms, including human, dog, cat, horse,
CC cow, pig, hamster, monkey, macaque, yeast, bacteria, fruit fly, sea
CC urchin and tomato. These were derived from expressed sequence tags (ESTs)
CC from the organism of interest. They can be used in diagnostics,
CC forensics, gene mapping, identification of mutations, to assess
CC biodiversity and for nutritional purposes. The present sequence is a
CC protein of the invention
XX
SQ Sequence 402 AA;
Query Match 35.5%; Score 150; DB 4; Length 402;
Best Local Similarity 100.0%; Pred. No. 7.1e-135;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 16 SAAALPTGQGNLFTKDVTVIEGEVATISQVKNKSDSDSVIQLLNNRQTIYFRDPRPLK 75
DB 34 SAAALPTGQGNLFTKDVTVIEGEVATISQVKNKSDSDSVIQLLNNRQTIYFRDPRPLK 93
QY 76 DSRFQLLNFSSSELKVSLSLTNVSISDEGRYFCQLYTDPPOESYTTITVLVPPRLMIDIQ 135
DB 94 DSRFQLLNFSSSELKVSLSLTNVSISDEGRYFCQLYTDPPOESYTTITVLVPPRLMIDIQ 153
QY 136 DTAVEGEIEVNCNTAMASKPATIRWFKGN 165
DB 154 DTAVEGEIEVNCNTAMASKPATIRWFKGN 183
RESULT 8
AAY53028
ID AAY53028 standard; protein; 414 AA.
XX AAY53028;
AC AAY53028;
DT 29-FEB-2000 (first entry)
XX Human secreted protein clone cw1000_2 protein sequence SEQ ID NO:62.
XX Human; secreted protein; nutritional; cytokine; cell proliferation;
KW differentiation; immune stimulating; vaccine; suppression;
KW haematopoiesis regulation; tissue growth; activin; inhibin; chemotactic;
KW chemokinetic; haemostatic; thrombolytic; receptor; ligand;
KW anti-inflammatory; cadherin; tumour invasion suppressor;
KW tumour inhibition; gene therapy.
XX Homo sapiens.
OS WO9957132-A1.
PN 11-NOV-1999.
XX 07-MAY-1999; 99WO-US009970.
XX 07-MAY-1998; 98US-0084564P.
PR 02-JUN-1998; 98US-0087645P.
PR 22-JUL-1998; 98US-0093712P.
PR 31-JUL-1998; 98US-0094935P.
PR 10-AUG-1998; 98US-0095880P.
PR 11-AUG-1998; 98US-0096068P.
PR 06-MAY-1999; 99US-00306111.
XX (GEM) GENETICS INST INC.
XX Jacobs K, McCoy JM, Lavallie ER, Collins-Racie LA, Evans C;
PI Merberg D, Treacy M, Agostino MJ, Steininger RJ, Bowman MR;
PI Dblasio-Smith E, Widom A;
XX WPI; 2000-052937/04.
DR N-PSDB; AA233346.
XX New polynucleotides encoding secreted human proteins, derived from adult
PT placenta, adult retina, fetal brain, fetal.
XX

Claim 71; Page 416-417; 492pp; English.

The present invention describes new human secreted proteins which were isolated from adult placenta, adult retina, foetal brain, foetal kidney, adult blood, adult brain, adult thyroid, adult bladder, adult neural tissue, adult testes, and adult lymph node cDNA libraries. The human secreted proteins, and the polynucleotides encoding them, are predicted to have biological activities which would make them suitable for treating, preventing or ameliorating medical conditions in humans and animals. Suggested activities include nutritional activity, cytokine and cell proliferation/differentiation activity, immune stimulating (e.g. as vaccines) or suppressing activity, haematopoiesis regulating activity, tissue growth activity, activin/inhibin activity, chemotactic/chemokinetic activity, haemostatic and thrombolytic activity, receptor/ligand activity, anti-inflammatory activity, cadherin/tumour invasion suppressor activity, and tumour inhibition activity. The polynucleotides are also stated to be useful for gene therapy. AA233316 to AA233373 encode human secreted proteins, and AA252998 to AA253060 represent human secreted proteins, given in the present invention

XX
SQ Sequence 414 AA;

Query Match 35.5%; Score 150; DB 3; Length 414;
Best Local Similarity 100.0%; Pred. No. 7.3e-135;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 16 SAALPIPTGQGQLFTKDVTVIEGEVATISCVNKSDDSVIQLLPNNRQTIVFRDRLPK 75
| | | | |
DB 34 SAALPIPTGQGQLFTKDVTVIEGEVATISCVNKSDDSVIQLLPNNRQTIVFRDRLPK 93
| | | | |

QY 76 DSRFOLLNFSSSELKVLSTNVSDSDEGRYFCOLYTDPDQESYTTITLVPPRNLMIDIQ 135
| | | | |
DB 94 DSRFOLLNFSSSELKVLSTNVSDSDEGRYFCOLYTDPDQESYTTITLVPPRNLMIDIQ 153
| | | | |

QY 136 DTAVEGEEIEVNCTAMASKPATTIRWFKN 165
| | | | |
DB 154 DTAVEGEEIEVNCTAMASKPATTIRWFKN 183
| | | | |

RESULT 9
ABO84564
ID ABO84564 standard; protein; 425 AA.
XX ABO84564;
AC AC
DT 18-NOV-2004 (first entry)
XX Human cancer-associated protein HPI16-039.1.
DE DE
KW Human; cancer-associated protein; cytostatic; cancer; leukaemia;
XW Lymphoma; CAP.
OS Homo sapiens.
XX WO2004074320-A2.
PN PN
PD PD
XX 02-SEP-2004.
PF PF
XX 17-FEB-2004; 2004WO-US004730.
PR PR
XX 14-FEB-2003; 2003US-00367094.
PR PR
XX 14-MAR-2003; 2003US-0038838.
PR PR
XX 15-APR-2003; 2003US-00417375.
PR PR
XX 13-JUN-2003; 2003US-00461862.
PR PR
XX 15-SEP-2003; 2003US-00663431.
PR PR
XX 15-DEC-2003; 2003US-0073718.
XX (SAGR-) SAGRES DISCOVERY INC.
PA PA
XX Morris DW, Morris DW, Malandro MS;
PI PI
XX WPI; 2004-652914/63.
DR DR
XX N-PSDB; ABD32792.

New isolated cancer-associated polynucleotides and polypeptides useful for diagnosing, preventing or treating cancers, especially lymphoma and leukemia, or in screening for agents that modulate cancer.

claim 18; seqid 422; 310pp; English.

The invention relates to an isolated nucleic acid comprising at least 10 contiguous nucleotides of any of the 233 polynucleotide sequences given in the specification, or its complement. The nucleic acids encode cancer-associated proteins. Also included are an expression vector comprising the isolated nucleic acid cited above, a host cell comprising the above recombinant nucleic acid or expression vector, a microarray for detecting a cancer-associated (CA) nucleic acid comprising at least one probe comprising at least 10 contiguous nucleotides of any of the above-mentioned nucleotide sequences, an isolated polypeptide (encoded within an open reading frame of a CA sequence selected from any of the 95 polynucleotide sequences as mentioned in the specification, or its complement), an isolated antibody, (or its antigen binding fragment) that binds to the above polypeptide, a hybridoma that produces the above monoclonal antibody, a pharmaceutical composition comprising the above antibody and a pharmaceutical excipient, a kit for detecting cancer cells (comprising the antibody cited above, methods for diagnosing cancer or for detecting the presence or absence of cancer cells in an individual, a method for inhibiting growth of cancer cells in an individual, a method for delivering a therapeutic agent to cancer cells in an individual, an electronic library comprising the above polynucleotide or polypeptide (or their fragments), methods of screening for anticancer activity or for a bioactive agent capable of modulating the activity of a CA protein (CAP), methods for detecting cancer associated with expression of a polypeptide in a test cell sample, a method for treating cancers and a method for inhibiting the expression of a CA gene in a cell. The composition and methods are useful for detecting, diagnosing, preventing and treating cancers especially lymphoma and leukaemia. These may also be used in screening for agents that modulate cancer. The present sequence is a human CAP protein sequence. Note: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO at ftp.wipo.int/pub/published_pct_sequences

XX
SQ Sequence 425 AA;

Query Match 35.5%; Score 150; DB 8; Length 425;
Best Local Similarity 100.0%; Pred. No. 7.5e-135;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 16 SAALPIPTGQGQLFTKDVTVIEGEVATISCVNKSDDSVIQLLPNNRQTIVFRDRLPK 75
| | | | |
DB 34 SAALPIPTGQGQLFTKDVTVIEGEVATISCVNKSDDSVIQLLPNNRQTIVFRDRLPK 93
| | | | |

QY 76 DSRFOLLNFSSSELKVLSTNVSDSDEGRYFCOLYTDPDQESYTTITLVPPRNLMIDIQ 135
| | | | |
DB 94 DSRFOLLNFSSSELKVLSTNVSDSDEGRYFCOLYTDPDQESYTTITLVPPRNLMIDIQ 153
| | | | |

QY 136 DTAVEGEEIEVNCTAMASKPATTIRWFKN 165
| | | | |
DB 154 DTAVEGEEIEVNCTAMASKPATTIRWFKN 183
| | | | |

RESULT 10
AAV17830
ID AAV17830 standard; protein; 440 AA.
XX AAV17830;
AC AAV17830;
XX 12-AUG-1999 (first entry)
DT DT
XX Human PRO355 protein sequence.
DE DE
XX Human; PRO protein; tumour necrosis factor family; TNF; cytokine;
KW secreted protein; transmembrane protein; inflammation disorder.
XX Homo sapiens.
OS OS

```
XX WO9928462-A2.
PN
PD
PP
PR 01-DEC-1998; 98WO-US025108.
PR 03-DEC-1997; 97US-0067411P.
PR 11-DEC-1997; 97US-0069278P.
PR 11-DEC-1997; 97US-0069334P.
PR 11-DEC-1997; 97US-0069335P.
PR 12-DEC-1997; 97US-0069425P.
PR 16-DEC-1997; 97US-0069694P.
PR 16-DEC-1997; 97US-0069696P.
PR 16-DEC-1997; 97US-0069702P.
PR 17-DEC-1997; 97US-0069870P.
PR 17-DEC-1997; 97US-0069873P.
PR 18-DEC-1997; 97US-0068017P.
PR 05-JAN-1998; 98US-0070440P.
PR 05-FEB-1998; 98US-0074086P.
PR 05-FEB-1998; 98US-0074092P.
PR 25-FEB-1998; 98US-0075945P.
XX (GETH ) GENENTECH INC.
XX Wood WI, Goddard A, Gurney AL, Yuan J, Baker KP, Chen J;
XX WPI; 1999-371118/31.
XX N-PSDB; AAX80055.
XX Nucleic acids encoding PRO secreted and transmembrane proteins.
XX Claim 12; Fig 27; 123pp; English.
XX The present invention describes nucleic acids encoding PRO secreted and
XX transmembrane proteins used therapeutically. The PRO proteins have
XX cytosolic, anti-inflammatory, anti-proliferative and immunosuppressive
XX activity. The proteins and polynucleotides can be used in therapy.
XX Identification of homologues, raising antibodies and design of probes and
XX primers. They can be used in a range of diseases related to proteins that
XX they have homology with, e.g. a PRO protein having homology to complement
XX proteins may be used in inflammatory responses
XX
XX Sequence 440 AA;
XX
XX Query Match 35.5%; Score 150; DB 2; Length 440;
XX Best Local Similarity 100.0%; Pred. No. 7.7e-135; Indels 0; Gaps 0;
XX Matches 150; Conservative 0; Mismatches 0;
XX
XX QY 16 SAAALPTGQQLFTKDVTVIEGEVATISQVKNKSDSVIQLNPNRQTIYFRDRLPLK 75
XX | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
XX Db 32 SAAALPTGQQLFTKDVTVIEGEVATISQVKNKSDSVIQLNPNRQTIYFRDRLPLK 91
XX
XX QY 76 DSRFQLNLFSSSELKUSLTNVSISDEGRYFCQLYTDPPQESYTTITVLVPPRNLMDIQK 135
XX | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
XX Db 92 DSRFQLNLFSSSELKUSLTNVSISDEGRYFCQLYTDPPQESYTTITVLVPPRNLMDIQK 151
XX | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
XX QY 136 DTAVEGEIEVNCVTAMASKPATTIRWPKGN 165
XX | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
XX Db 152 DTAVEGEIEVNCVTAMASKPATTIRWPKGN 181
XX
XX RESULT 11
XX AAB01321
XX ID AAB01321 standard; protein; 440 AA.
XX AC AAB01321;
XX XX
XX 25-SEP-2000 (first entry)
XX DE Human PRO355 polypeptide.
XX KW PRO; membrane bound protein; secreted protein; PRO357; PRO327; PRO243;
```

```
KW PRO715; PRO241; PRO323; PRO299; PRO233; PRO344; PRO347; PRO355; PRO353;
KW PRO361; PRO365; transmembrane polypeptide; antibody; screening;
KW detection; inhibition; probe; primer; human.
XX Homo sapiens.
XX
XX Key Location/Qualifiers
XX Peptide 1..36
XX /label= Signal peptide
XX Modified-site 9..15
XX /note= "N-myristoylation site"
XX Modified-site 65..69
XX /note= "N-glycosylation site"
XX Modified-site 99..103
XX /note= "N-glycosylation site"
XX Modified-site 111..115
XX /note= "N-glycosylation site"
XX Modified-site 163..167
XX /note= "N-glycosylation site"
XX Modified-site 227..233
XX /note= "N-myristoylation site"
XX Modified-site 233..240
XX /note= "Tyrosine kinase phosphorylation site"
XX Modified-site 302..306
XX /note= "N-glycosylation site"
XX Modified-site 306..310
XX /note= "N-glycosylation site"
XX Modified-site 307..313
XX /note= "N-myristoylation site"
XX Modified-site 319..328
XX /note= "Tyrosine kinase phosphorylation site"
XX Modified-site 365..371
XX /note= "N-myristoylation site"
XX Domain 372..393
XX /label= Transmembrane domain
XX Modified-site 376..382
XX /note= "N-myristoylation site"
XX Modified-site 402..408
XX /note= "N-myristoylation site"
XX Modified-site 411..417
XX /note= "N-myristoylation site"
XX Modified-site 427..433
XX /note= "N-myristoylation site"
XX Modified-site 428..432
XX /note= "N-myristoylation site"
XX Modified-site 430..434
XX /note= "N-glycosylation site"
XX
XX WO200032776-A2.
XX
XX 08-JUN-2000.
XX
XX 01-DEC-1999; 99WO-US028301.
XX
XX 01-DEC-1998; 98WO-US025108.
XX 16-DEC-1998; 98US-0112850P.
XX 22-DEC-1998; 98US-0113296P.
XX
XX (GETH ) GENENTECH INC.
XX
XX Baker KP, Botstein D, Eaton DL, Ferrara N, Filvaroff E;
XX Gerritsen ME, Goddard A, Godowski PJ, Grimaldi CU, Gurney AL;
XX Hillan KJ, Kljavin IJ, Napier MA, Roy MA, Tumas D, Wood WI;
XX
XX WPI; 2000-412324/35.
XX N-PSDB; AAA49563.
XX
XX New human nucleic acids encoding secreted and transmembrane polypeptides,
XX designated as PRO polypeptides, useful as pharmaceutical and diagnostic
XX agents.
XX Claim 12; Fig 24; 187pp; English.
XX
```

```
CC New human nucleic acids encoding secreted and transmembrane polypeptides
CC which are designated as PRO polypeptides are described. The membrane-bound
CC proteins have various industrial applications, including as
CC pharmaceutical and diagnostic agents. The membrane-bound proteins can
CC also be employed for screening of potential peptide or small molecule
CC inhibitors of the relevant receptor/ligand interaction. Anti-PRO
CC antibodies are useful for the affinity purification of PRO from
CC recombinant cell culture or natural sources
XX
SQ Sequence 440 AA;

Query Match 35.5%; Score 150; DB 3; Length 440;
Best Local Similarity 100.0%; Pred. No. 7.7e-135;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 16 SAALAIPTGQNLFTKDVTVIEGEVATISQVKNKSDSVIQLNPNRQTIYFRDFRPLK 75
Db |||||
32 SAALAIPTGQNLFTKDVTVIEGEVATISQVKNKSDSVIQLNPNRQTIYFRDFRPLK 91
Qy 76 DSRFQLNFSSELKSLTNVSIISDEGRYFCOLYTDPPQESYTTITVLVPPRNLMDIQK 135
Db |||||
92 DSRFQLNFSSELKSLTNVSIISDEGRYFCOLYTDPPQESYTTITVLVPPRNLMDIQK 151
Qy 136 DTAVEGEEIEVNCVTAMASKPATIRWFKGN 165
Db |||||
152 DTAVEGEEIEVNCVTAMASKPATIRWFKGN 181

RESULT 12
AAU29040
ID AAU29040 standard; protein; 440 AA.
XX
AC AAU29040;
XX
XX
DT 18-DEC-2001 (first entry)
XX
DE Human PRO polypeptide sequence #17.
XX
KW PRO polypeptide; mammal; tumour; cancer; human; cattle; horse; sheep;
KW dog; cat; pig; goat; rabbit; tumour necrosis factor alpha; TNF-alpha;
KW blood; chondrocyte cell; cell proliferation; cell differentiation; colon;
KW adrenal; lung; breast; prostate; rectum; cervix; liver; genetic disorder.
XX
OS Homo sapiens.
XX
XX WO200168848-A2.
XX
XX 20-SEP-2001.
XX
XX 28-FEB-2001; 2001WO-US006520.
XX
XX 01-MAR-2000; 2000WO-US005601.
XX 02-MAR-2000; 2000WO-US005841.
XX 03-MAR-2000; 2000US-0187202P.
XX 06-MAR-2000; 2000US-0186988P.
XX 14-MAR-2000; 2000US-0189320P.
XX 14-MAR-2000; 2000US-0189328P.
XX 15-MAR-2000; 2000WO-US006884.
XX 21-MAR-2000; 2000US-0190828P.
XX 21-MAR-2000; 2000US-0191007P.
XX 21-MAR-2000; 2000US-0191048P.
XX 21-MAR-2000; 2000US-0191314P.
XX 28-MAR-2000; 2000US-0192655P.
XX 29-MAR-2000; 2000US-0193032P.
XX 29-MAR-2000; 2000US-0193053P.
XX 30-MAR-2000; 2000WO-US008439.
XX 04-APR-2000; 2000US-0194449P.
XX 04-APR-2000; 2000US-0194647P.
XX 11-APR-2000; 2000US-0195975P.
XX 11-APR-2000; 2000US-0196000P.
XX 11-APR-2000; 2000US-0196187P.
XX 11-APR-2000; 2000US-0196690P.
XX 11-APR-2000; 2000US-0196820P.
```

```
PR 18-APR-2000; 2000US-0198121P.
PR 18-APR-2000; 2000US-0198585P.
PR 25-APR-2000; 2000US-0199397P.
PR 25-APR-2000; 2000US-0199550P.
PR 25-APR-2000; 2000US-0199654P.
PR 03-MAY-2000; 2000US-0201516P.
PR 17-MAY-2000; 2000WO-US013705.
PR 22-MAY-2000; 2000WO-US014042.
PR 30-MAY-2000; 2000WO-US014941.
PR 02-JUN-2000; 2000WO-US015264.
PR 05-JUN-2000; 2000US-0209832P.
PR 28-JUL-2000; 2000WO-US020710.
PR 22-AUG-2000; 2000US-00644848.
PR 24-AUG-2000; 2000WO-US023328.
PR 08-NOV-2000; 2000WO-US030952.
PR 01-DEC-2000; 2000WO-US032678.
PR 20-DEC-2000; 2000WO-US034956.
XX
XX (GETH ) GENENTECH INC.
XX
XX Baker KP, Chen J, Desnoyers L, Goddard A, Godowski PJ, Gurney AL;
XX Pan J, Smith V, Watanabe CK, Wood WI, Zhang Z;
XX
XX WPI; 2001-602746/68.
XX N-PSDB; AAS45941.
XX
XX Novel nucleic acids encoding PRO polypeptides, used to diagnose the
XX presence of tumors, such as prostate and breast tumors, in mammals and to
XX screen for modulators of the compounds.
XX
XX Claim 11; Fig 34; 774pp; English.
XX
XX Sequences AAU29024-AAU29328 represent PRO polypeptides of the invention.
XX The PRO polypeptides and their associated nucleic acids can be used to
XX detect the presence of a tumour in a mammal by comparing the level of
XX expression of a PRO polypeptide in a test sample of cells from the animal
XX and a control sample of normal cells, whereby a higher level of
XX expression in the test sample indicates the presence of a tumour in the
XX mammal. Mammals include dogs, cats, cattle, horses, sheep, pigs, goats
XX and rabbits but are preferably human. The polypeptides can be used to
XX stimulate tumour necrosis factor (TNF) alpha release from human blood,
XX when contacted with it. A specific polypeptide can be used to stimulate
XX the proliferation or differentiation of chondrocyte cells. The PRO
XX proteins can be used to determine the presence of tumours and also
XX susceptibility to tumour development, particularly adrenal, lung, colon,
XX breast, prostate, rectal, cervical, or liver tumours, in mammalian
XX subjects. The oligonucleotide probes specific for the PRO nucleic acids
XX can be used for genetic analysis of individuals with genetic disorders
XX
XX Sequence 440 AA;

Query Match 35.5%; Score 150; DB 4; Length 440;
Best Local Similarity 100.0%; Pred. No. 7.7e-135;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 16 SAALAIPTGQNLFTKDVTVIEGEVATISQVKNKSDSVIQLNPNRQTIYFRDFRPLK 75
Db |||||
32 SAALAIPTGQNLFTKDVTVIEGEVATISQVKNKSDSVIQLNPNRQTIYFRDFRPLK 91
Qy 76 DSRFQLNFSSELKSLTNVSIISDEGRYFCOLYTDPPQESYTTITVLVPPRNLMDIQK 135
Db |||||
92 DSRFQLNFSSELKSLTNVSIISDEGRYFCOLYTDPPQESYTTITVLVPPRNLMDIQK 151
Qy 136 DTAVEGEEIEVNCVTAMASKPATIRWFKGN 165
Db |||||
152 DTAVEGEEIEVNCVTAMASKPATIRWFKGN 181

RESULT 13
ABU58416
ID ABU58416 standard; protein; 440 AA.
XX
XX AC ABU58416;
```

| | | | | | |
|----|--------------|---|----|--------------|----------------|
| XX | 15-APR-2003 | (first entry) | PR | 22-MAY-1998; | 98US-0086486P. |
| DT | | | PR | 28-MAY-1998; | 98US-0087098P. |
| XX | | | PR | 28-MAY-1998; | 98US-0087208P. |
| DE | | | PR | 02-JUN-1998; | 98US-0087609P. |
| XX | | Human PRO polypeptide #17. | PR | 02-JUN-1998; | 98US-0087759P. |
| XX | | | PR | 03-JUN-1998; | 98US-0087827P. |
| KW | | Human; PRO; cytostatic; tumour; cancer; breast; lung; stomach; liver; | PR | 04-JUN-1998; | 98US-0088025P. |
| KW | | dog; cat; cow; horse; sheep; pig; goat; rabbit; ADEPT; | PR | 04-JUN-1998; | 98US-0088028P. |
| KW | | antibody-dependent enzyme mediated prodrug therapy. | PR | 04-JUN-1998; | 98US-0088029P. |
| XX | | | PR | 04-JUN-1998; | 98US-0088033P. |
| OS | | Homo sapiens. | PR | 04-JUN-1998; | 98US-0088326P. |
| XX | | | PR | 05-JUN-1998; | 98US-0088167P. |
| PN | | US2003027272-A1. | PR | 05-JUN-1998; | 98US-0088202P. |
| XX | | | PR | 05-JUN-1998; | 98US-0088212P. |
| PD | | 06-FEB-2003. | PR | 05-JUN-1998; | 98US-0088217P. |
| XX | | | PR | 09-JUN-1998; | 98US-0088655P. |
| XX | | 21-JUN-2002; 2002US-00176492. | PR | 10-JUN-1998; | 98US-0088722P. |
| XX | | | PR | 10-JUN-1998; | 98US-0088738P. |
| PR | 18-SEP-1997; | 97US-0059263P. | PR | 10-JUN-1998; | 98US-0088740P. |
| PR | 18-SEP-1997; | 97US-0059266P. | PR | 10-JUN-1998; | 98US-0088811P. |
| PR | 17-OCT-1997; | 97US-0062250P. | PR | 10-JUN-1998; | 98US-0088811P. |
| PR | 21-OCT-1997; | 97US-0063486P. | PR | 10-JUN-1998; | 98US-0088824P. |
| PR | 24-OCT-1997; | 97US-00631120P. | PR | 10-JUN-1998; | 98US-0088825P. |
| PR | 24-OCT-1997; | 97US-00631121P. | PR | 10-JUN-1998; | 98US-0088826P. |
| PR | 28-OCT-1997; | 97US-0063540P. | PR | 11-JUN-1998; | 98US-0088861P. |
| PR | 28-OCT-1997; | 97US-0063541P. | PR | 11-JUN-1998; | 98US-0088863P. |
| PR | 28-OCT-1997; | 97US-0063544P. | PR | 11-JUN-1998; | 98US-0088876P. |
| PR | 28-OCT-1997; | 97US-0063564P. | PR | 12-JUN-1998; | 98US-0089090P. |
| PR | 29-OCT-1997; | 97US-0063734P. | PR | 12-JUN-1998; | 98US-0089105P. |
| PR | 31-OCT-1997; | 97US-0063870P. | PR | 15-JUN-1998; | 98US-0089512P. |
| PR | 31-OCT-1997; | 97US-0064103P. | PR | 16-JUN-1998; | 98US-0089514P. |
| PR | 13-NOV-1997; | 97US-0065311P. | PR | 17-JUN-1998; | 98US-0089538P. |
| PR | 21-NOV-1997; | 97US-00661120P. | PR | 17-JUN-1998; | 98US-0089598P. |
| PR | 24-NOV-1997; | 97US-0066466P. | PR | 17-JUN-1998; | 98US-0089653P. |
| PR | 24-NOV-1997; | 97US-0066772P. | PR | 18-JUN-1998; | 98US-0089908P. |
| PR | 11-DEC-1997; | 97US-0069335P. | PR | 19-JUN-1998; | 98US-0089952P. |
| PR | 12-DEC-1997; | 97US-0069425P. | PR | 22-JUN-1998; | 98US-0090246P. |
| PR | 17-DEC-1997; | 97US-0069870P. | PR | 22-JUN-1998; | 98US-0090252P. |
| PR | 18-DEC-1997; | 97US-007450P. | PR | 22-JUN-1998; | 98US-0090254P. |
| PR | 10-MAR-1998; | 98US-007450P. | PR | 24-JUN-1998; | 98US-0090429P. |
| PR | 11-MAR-1998; | 98US-0077632P. | PR | 24-JUN-1998; | 98US-0090435P. |
| PR | 11-MAR-1998; | 98US-0077649P. | PR | 24-JUN-1998; | 98US-0090444P. |
| PR | 20-MAR-1998; | 98US-0078886P. | PR | 24-JUN-1998; | 98US-0090461P. |
| PR | 20-MAR-1998; | 98US-0078939P. | PR | 24-JUN-1998; | 98US-0090535P. |
| PR | 27-MAR-1998; | 98US-0079664P. | PR | 24-JUN-1998; | 98US-0090540P. |
| PR | 27-MAR-1998; | 98US-0079786P. | PR | 25-JUN-1998; | 98US-0090676P. |
| PR | 31-MAR-1998; | 98US-0080107P. | PR | 25-JUN-1998; | 98US-0090678P. |
| PR | 31-MAR-1998; | 98US-0080194P. | PR | 25-JUN-1998; | 98US-0090688P. |
| PR | 01-APR-1998; | 98US-0080327P. | PR | 25-JUN-1998; | 98US-0090690P. |
| PR | 01-APR-1998; | 98US-0080333P. | PR | 25-JUN-1998; | 98US-0090694P. |
| PR | 08-APR-1998; | 98US-0081049P. | PR | 25-JUN-1998; | 98US-0090696P. |
| PR | 08-APR-1998; | 98US-0081070P. | PR | 25-JUN-1998; | 98US-0090696P. |
| PR | 09-APR-1998; | 98US-0081195P. | PR | 26-JUN-1998; | 98US-00105413. |
| PR | 15-APR-1998; | 98US-0081838P. | PR | 26-JUN-1998; | 98US-0090862P. |
| PR | 21-APR-1998; | 98US-0082568P. | PR | 26-JUN-1998; | 98US-0090863P. |
| PR | 21-APR-1998; | 98US-0082569P. | PR | 26-JUN-1998; | 98US-0091010P. |
| PR | 22-APR-1998; | 98US-0082704P. | PR | 01-JUL-1998; | 98US-0091359P. |
| PR | 22-APR-1998; | 98US-0082797P. | PR | 01-JUL-1998; | 98US-0091544P. |
| PR | 28-APR-1998; | 98US-0083322P. | PR | 02-JUL-1998; | 98US-0091478P. |
| PR | 29-APR-1998; | 98US-0083495P. | PR | 02-JUL-1998; | 98US-0091486P. |
| PR | 29-APR-1998; | 98US-0083496P. | PR | 02-JUL-1998; | 98US-0091626P. |
| PR | 29-APR-1998; | 98US-0083499P. | PR | 02-JUL-1998; | 98US-0091628P. |
| PR | 29-APR-1998; | 98US-0083559P. | PR | 02-JUL-1998; | 98US-0091632P. |
| PR | 05-MAY-1998; | 98US-0084366P. | PR | 24-JUL-1998; | 98US-0094006P. |
| PR | 06-MAY-1998; | 98US-0084414P. | PR | 04-AUG-1998; | 98US-0095282P. |
| PR | 07-MAY-1998; | 98US-0084639P. | PR | 10-AUG-1998; | 98US-0095998P. |
| PR | 07-MAY-1998; | 98US-0084640P. | PR | 10-AUG-1998; | 98US-0096012P. |
| PR | 07-MAY-1998; | 98US-0084643P. | PR | 17-AUG-1998; | 98US-0096757P. |
| PR | 15-MAY-1998; | 98US-0085579P. | PR | 17-AUG-1998; | 98US-0096766P. |
| PR | 15-MAY-1998; | 98US-0085580P. | PR | 17-AUG-1998; | 98US-0096867P. |
| PR | 15-MAY-1998; | 98US-0085582P. | PR | 17-AUG-1998; | 98US-0096891P. |
| PR | 15-MAY-1998; | 98US-0085700P. | PR | 17-AUG-1998; | 98US-0096897P. |
| PR | 15-MAY-1998; | 98US-0086023P. | PR | 18-AUG-1998; | 98US-0096949P. |
| PR | 22-MAY-1998; | 98US-0086332P. | PR | 18-AUG-1998; | 98US-0096959P. |

```
PR 18-AUG-1998; 98US-0097022P.
PR 26-AUG-1998; 98US-0097952P.
PR 26-AUG-1998; 98US-0097954P.
PR 26-AUG-1998; 98US-0097955P.
PR 26-AUG-1998; 98US-0097971P.
PR 26-AUG-1998; 98US-0097974P.
PR 01-SEP-1998; 98US-0098014P.
PR 01-SEP-1998; 98US-0098716P.
PR 02-SEP-1998; 98US-0098723P.
PR 02-SEP-1998; 98US-0098803P.
PR 02-SEP-1998; 98US-0098821P.
PR 02-SEP-1998; 98US-0098843P.
PR 09-SEP-1998; 98US-0099602P.
PR 10-SEP-1998; 98US-0099741P.
PR 10-SEP-1998; 98US-0099754P.
PR 10-SEP-1998; 98US-0099763P.
PR 10-SEP-1998; 98US-0099812P.
PR 15-SEP-1998; 98US-0100388P.
PR 16-SEP-1998; 98US-0100662P.
PR 16-SEP-1998; 98US-0100664P.
PR 16-SEP-1998; 98US-0101751P.
PR 16-SEP-1998; 98US-01019330.
PR 17-SEP-1998; 98US-0100683P.
PR 17-SEP-1998; 98US-0100684P.
PR 17-SEP-1998; 98US-0100919P.
PR 17-SEP-1998; 98US-0100930P.
PR 18-SEP-1998; 98US-0100849P.
PR 18-SEP-1998; 98US-0101016P.
PR 18-SEP-1998; 98US-0101068P.
PR 23-SEP-1998; 98US-0101471P.
PR 23-SEP-1998; 98US-0101472P.
PR 23-SEP-1998; 98US-0101475P.
PR 23-SEP-1998; 98US-0101477P.
PR 24-SEP-1998; 98US-0101738P.
PR 24-SEP-1998; 98US-0101739P.
PR 24-SEP-1998; 98US-0101743P.
PR 24-SEP-1998; 98US-0101922P.
PR 25-SEP-1998; 98US-0101786P.
PR 29-SEP-1998; 98US-0102207P.
PR 29-SEP-1998; 98US-0102240P.
PR 29-SEP-1998; 98US-0102330P.
PR 29-SEP-1998; 98US-0102331P.
PR 30-SEP-1998; 98US-0102487P.
PR 30-SEP-1998; 98US-0102570P.
PR 30-SEP-1998; 98US-0102571P.
PR 01-OCT-1998; 98US-0102684P.
PR 01-OCT-1998; 98US-0102687P.
PR 02-OCT-1998; 98US-0102965P.
PR 06-OCT-1998; 98US-0103258P.
PR 06-OCT-1998; 98US-0103449P.
PR 07-OCT-1998; 98US-00168978.
```

```
Query Match 35.5%; Score 150; DB 6; Length 440;
Best Local Similarity 100.0%; Pred. No. 7.7e-135;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 16 SAALIPGQGNLFTKDVTVIEGEVATISQVKNKSDSVIQLLNPNRQTIYFRDPLK 75
    |||||
Db 32 SAALIPGQGNLFTKDVTVIEGEVATISQVKNKSDSVIQLLNPNRQTIYFRDPLK 91
    |||||

Qy 76 DSRFQLNFSSELKVSILTNVISDEGRYFCQLYTDPPQESYTTITVLVPPNLMIDIQ 135
    |||||
Db 92 DSRFQLNFSSELKVSILTNVISDEGRYFCQLYTDPPQESYTTITVLVPPNLMIDIQ 151
    |||||

Qy 136 DTAVEGEIEVNCATAMASKPATTIRWFKGN 165
    |||||
Db 152 DTAVEGEIEVNCATAMASKPATTIRWFKGN 181
    |||||
```

```
RESULT 14
ABU87964
ID ABU87964 standard; protein; 440 AA.
XX
```

```
AC ABU87964;
XX 07-JUL-2003 (first entry)
DE Novel human secreted and transmembrane protein PRO355.
XX
KW Human; secreted and transmembrane protein; PRO; gene therapy;
KW tumour necrosis factor-alpha release; TNF-alpha release;
KW chondrocyte proliferation; chondrocyte differentiation; tumour;
KW adrenal tumour; lung tumour; colon tumour; breast tumour;
KW prostate tumour; rectal tumour; cervical tumour; liver tumour.
XX
OS Homo sapiens.
XX
PN US2003032127-A1.
XX
PD 13-FEB-2003.
XX
XX 26-JUN-2002; 2002US-00183012.
XX
PR 18-SEP-1997; 97US-0059263P.
PR 18-SEP-1997; 97US-0059266P.
PR 17-OCT-1997; 97US-0062250P.
PR 21-OCT-1997; 97US-0063486P.
PR 24-OCT-1997; 97US-0063120P.
PR 24-OCT-1997; 97US-0063121P.
PR 28-OCT-1997; 97US-0063540P.
PR 28-OCT-1997; 97US-0063541P.
PR 28-OCT-1997; 97US-0063544P.
PR 28-OCT-1997; 97US-0063564P.
PR 29-OCT-1997; 97US-0063734P.
PR 31-OCT-1997; 97US-0063870P.
PR 31-OCT-1997; 97US-0064103P.
PR 11-NOV-1997; 97US-0065311P.
PR 21-NOV-1997; 97US-0066120P.
PR 24-NOV-1997; 97US-0066466P.
PR 24-NOV-1997; 97US-0066772P.
PR 11-DEC-1997; 97US-0069335P.
PR 12-DEC-1997; 97US-0069425P.
PR 17-DEC-1997; 97US-0069870P.
PR 18-DEC-1997; 97US-0068017P.
PR 10-MAR-1998; 98US-0077450P.
PR 11-MAR-1998; 98US-0077632P.
PR 11-MAR-1998; 98US-0077649P.
PR 20-MAR-1998; 98US-0078886P.
PR 27-MAR-1998; 98US-0078939P.
PR 27-MAR-1998; 98US-0079664P.
PR 31-MAR-1998; 98US-0079786P.
PR 31-MAR-1998; 98US-0080107P.
PR 31-MAR-1998; 98US-0080194P.
PR 01-APR-1998; 98US-0080327P.
PR 01-APR-1998; 98US-0080333P.
PR 08-APR-1998; 98US-0081049P.
PR 08-APR-1998; 98US-0081070P.
PR 09-APR-1998; 98US-0081195P.
PR 15-APR-1998; 98US-0081838P.
PR 21-APR-1998; 98US-0082568P.
PR 21-APR-1998; 98US-0082569P.
PR 22-APR-1998; 98US-0082704P.
PR 22-APR-1998; 98US-0082797P.
PR 28-APR-1998; 98US-0083322P.
PR 29-APR-1998; 98US-0083495P.
PR 29-APR-1998; 98US-0083496P.
PR 29-APR-1998; 98US-0083499P.
PR 29-APR-1998; 98US-0083559P.
PR 05-MAY-1998; 98US-0084366P.
PR 06-MAY-1998; 98US-0084414P.
PR 07-MAY-1998; 98US-0084639P.
PR 07-MAY-1998; 98US-0084640P.
PR 07-MAY-1998; 98US-0084643P.
PR 15-MAY-1998; 98US-0085579P.
PR 15-MAY-1998; 98US-0085580P.
PR 15-MAY-1998; 98US-0085582P.
```

| | | | |
|-----------------|----------------|-----------------|----------------|
| PR 15-MAY-1998; | 98US-0085700P. | PR 17-AUG-1998; | 98US-0096897P. |
| PR 18-MAY-1998; | 98US-0086023P. | PR 18-AUG-1998; | 98US-0096949P. |
| PR 22-MAY-1998; | 98US-0086322P. | PR 18-AUG-1998; | 98US-0096959P. |
| PR 22-MAY-1998; | 98US-0086486P. | PR 18-AUG-1998; | 98US-0097022P. |
| PR 28-MAY-1998; | 98US-0087098P. | PR 26-AUG-1998; | 98US-0097952P. |
| PR 28-MAY-1998; | 98US-0087208P. | PR 26-AUG-1998; | 98US-0097954P. |
| PR 02-JUN-1998; | 98US-0087609P. | PR 26-AUG-1998; | 98US-0097955P. |
| PR 03-JUN-1998; | 98US-0087759P. | PR 26-AUG-1998; | 98US-0097971P. |
| PR 04-JUN-1998; | 98US-0088028P. | PR 26-AUG-1998; | 98US-0097974P. |
| PR 04-JUN-1998; | 98US-0088029P. | PR 01-SEP-1998; | 98US-0098014P. |
| PR 04-JUN-1998; | 98US-0088033P. | PR 01-SEP-1998; | 98US-009816P. |
| PR 04-JUN-1998; | 98US-0088326P. | PR 02-SEP-1998; | 98US-0098723P. |
| PR 05-JUN-1998; | 98US-0088167P. | PR 02-SEP-1998; | 98US-0098803P. |
| PR 05-JUN-1998; | 98US-0088202P. | PR 02-SEP-1998; | 98US-0098821P. |
| PR 05-JUN-1998; | 98US-0088212P. | PR 03-SEP-1998; | 98US-0098843P. |
| PR 05-JUN-1998; | 98US-0088217P. | PR 03-SEP-1998; | 98US-0099602P. |
| PR 09-JUN-1998; | 98US-0088252P. | PR 10-SEP-1998; | 98US-0099741P. |
| PR 10-JUN-1998; | 98US-0088655P. | PR 10-SEP-1998; | 98US-0099754P. |
| PR 10-JUN-1998; | 98US-0088722P. | PR 10-SEP-1998; | 98US-0099763P. |
| PR 10-JUN-1998; | 98US-0088738P. | PR 15-SEP-1998; | 98US-0099812P. |
| PR 10-JUN-1998; | 98US-0088740P. | PR 15-SEP-1998; | 98US-0100388P. |
| PR 10-JUN-1998; | 98US-0088811P. | PR 16-SEP-1998; | 98US-0100662P. |
| PR 10-JUN-1998; | 98US-0088824P. | PR 16-SEP-1998; | 98US-0100664P. |
| PR 10-JUN-1998; | 98US-0088825P. | PR 16-SEP-1998; | 98US-0101751P. |
| PR 11-JUN-1998; | 98US-0088861P. | PR 16-SEP-1998; | 98US-01019330. |
| PR 11-JUN-1998; | 98US-0088863P. | PR 17-SEP-1998; | 98US-0100684P. |
| PR 11-JUN-1998; | 98US-0088876P. | PR 17-SEP-1998; | 98US-0100684P. |
| PR 12-JUN-1998; | 98US-0089090P. | PR 17-SEP-1998; | 98US-0100919P. |
| PR 12-JUN-1998; | 98US-0089105P. | PR 17-SEP-1998; | 98US-0100930P. |
| PR 16-JUN-1998; | 98US-0089512P. | PR 18-SEP-1998; | 98US-0100849P. |
| PR 16-JUN-1998; | 98US-0089514P. | PR 18-SEP-1998; | 98US-0101014P. |
| PR 17-JUN-1998; | 98US-0089538P. | PR 23-SEP-1998; | 98US-0101068P. |
| PR 17-JUN-1998; | 98US-0089598P. | PR 23-SEP-1998; | 98US-0101471P. |
| PR 17-JUN-1998; | 98US-0089603P. | PR 23-SEP-1998; | 98US-0101472P. |
| PR 18-JUN-1998; | 98US-0089908P. | PR 23-SEP-1998; | 98US-0101475P. |
| PR 19-JUN-1998; | 98US-0089952P. | PR 23-SEP-1998; | 98US-0101477P. |
| PR 22-JUN-1998; | 98US-0090246P. | PR 24-SEP-1998; | 98US-0101738P. |
| PR 22-JUN-1998; | 98US-0090252P. | PR 24-SEP-1998; | 98US-0101739P. |
| PR 22-JUN-1998; | 98US-0090254P. | PR 24-SEP-1998; | 98US-0101743P. |
| PR 24-JUN-1998; | 98US-0090429P. | PR 25-SEP-1998; | 98US-0101922P. |
| PR 24-JUN-1998; | 98US-0090443P. | PR 25-SEP-1998; | 98US-0101786P. |
| PR 24-JUN-1998; | 98US-0090461P. | PR 25-SEP-1998; | 98US-0102207P. |
| PR 24-JUN-1998; | 98US-0090535P. | PR 29-SEP-1998; | 98US-0102240P. |
| PR 24-JUN-1998; | 98US-0090540P. | PR 29-SEP-1998; | 98US-0102330P. |
| PR 25-JUN-1998; | 98US-0090676P. | PR 29-SEP-1998; | 98US-0102331P. |
| PR 25-JUN-1998; | 98US-0090678P. | PR 29-SEP-1998; | 98US-0102331P. |
| PR 25-JUN-1998; | 98US-0090688P. | PR 30-SEP-1998; | 98US-0102487P. |
| PR 25-JUN-1998; | 98US-0090690P. | PR 30-SEP-1998; | 98US-0102570P. |
| PR 25-JUN-1998; | 98US-0090694P. | PR 30-SEP-1998; | 98US-0102571P. |
| PR 25-JUN-1998; | 98US-0090695P. | PR 01-OCT-1998; | 98US-0102684P. |
| PR 26-JUN-1998; | 98US-00105413. | PR 01-OCT-1998; | 98US-0102687P. |
| PR 26-JUN-1998; | 98US-0090862P. | PR 02-OCT-1998; | 98US-0102965P. |
| PR 26-JUN-1998; | 98US-0090863P. | PR 06-OCT-1998; | 98US-0103258P. |
| PR 01-JUL-1998; | 98US-0091010P. | | |
| PR 01-JUL-1998; | 98US-0091359P. | | |
| PR 02-JUL-1998; | 98US-0091544P. | | |
| PR 02-JUL-1998; | 98US-0091478P. | | |
| PR 02-JUL-1998; | 98US-0091486P. | | |
| PR 02-JUL-1998; | 98US-0091626P. | | |
| PR 02-JUL-1998; | 98US-0091628P. | | |
| PR 02-JUL-1998; | 98US-0091632P. | | |
| PR 04-JUL-1998; | 98US-0094006P. | | |
| PR 04-AUG-1998; | 98US-0095282P. | | |
| PR 10-AUG-1998; | 98US-0095998P. | | |
| PR 10-AUG-1998; | 98US-0096012P. | | |
| PR 17-AUG-1998; | 98US-0096757P. | | |
| PR 17-AUG-1998; | 98US-0096766P. | | |
| PR 17-AUG-1998; | 98US-0096867P. | | |
| PR 17-AUG-1998; | 98US-0096891P. | | |

Query Match 35.5%; Score 150; DB 6; Length 440;
Best Local Similarity 100.0%; Pred. No. 7.7e-135;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

| | | | |
|----|-----|---|-----|
| Qy | 16 | SAALPTGQGNLFTKDVTVIEGEVATISCOVKNKSDSDSVIQLNPNROTIIYRDRPLK | 75 |
| Db | 32 | SAALPTGQGNLFTKDVTVIEGEVATISCOVKNKSDSDSVIQLNPNROTIIYRDRPLK | 91 |
| Qy | 76 | DSRFQLNFSSSELKVLNTNVSISDEGRYFCQLYTDPPQESYTTITVLVPPRNLMIQK | 135 |
| Db | 92 | DSRFQLNFSSSELKVLNTNVSISDEGRYFCQLYTDPPQESYTTITVLVPPRNLMIQK | 151 |
| Qy | 136 | DTAVEGEEIEVNCNTAMASKPATIRWFKGN | 165 |
| Db | 152 | DTAVEGEEIEVNCNTAMASKPATIRWFKGN | 181 |

RESULT 15
ABU84279
ID ABU84279 standard; protein; 440 AA.

XX AC ABU84279; 18-MAY-1998; 98US-0086023P.
XX DT 02-AUG-2003 (first entry) 22-MAY-1998; 98US-0086392P.
XX DE Human secreted/transmembrane protein (PRO) #17. 28-MAY-1998; 98US-0087098P.
XX KW Human; secreted and transmembrane protein; PRO; TNF-alpha; 02-JUN-1998; 98US-0087609P.
KW tumour necrosis factor alpha; chondrocyte cell; tumour; gene therapy; 03-JUN-1998; 98US-0087759P.
KW tissue typing. 04-JUN-1998; 98US-0087827P.
XX OS Homo sapiens. 04-JUN-1998; 98US-0088025P.
XX PN US2003032112-A1. 04-JUN-1998; 98US-0088028P.
XX FD 13-FEB-2003. 04-JUN-1998; 98US-0088029P.
XX PF 21-JUN-2002; 2002US-00176756. 04-JUN-1998; 98US-0088033P.
XX PF 18-SEP-1997; 97US-0059263P. 04-JUN-1998; 98US-0088167P.
PR 18-SEP-1997; 97US-0059266P. 05-JUN-1998; 98US-0088202P.
PR 17-OCT-1997; 97US-0062250P. 05-JUN-1998; 98US-0088212P.
PR 21-OCT-1997; 97US-0063486P. 05-JUN-1998; 98US-0088217P.
PR 24-OCT-1997; 97US-0063120P. 09-JUN-1998; 98US-0088655P.
PR 24-OCT-1997; 97US-0063121P. 10-JUN-1998; 98US-0088722P.
PR 28-OCT-1997; 97US-0063540P. 10-JUN-1998; 98US-0088738P.
PR 28-OCT-1997; 97US-0063541P. 10-JUN-1998; 98US-0088740P.
PR 28-OCT-1997; 97US-0063544P. 10-JUN-1998; 98US-0088811P.
PR 28-OCT-1997; 97US-0063564P. 10-JUN-1998; 98US-0088824P.
PR 29-OCT-1997; 97US-0063734P. 10-JUN-1998; 98US-0088825P.
PR 31-OCT-1997; 97US-0063870P. 10-JUN-1998; 98US-0088826P.
PR 31-OCT-1997; 97US-0064103P. 11-JUN-1998; 98US-0088861P.
PR 13-NOV-1997; 97US-0065311P. 11-JUN-1998; 98US-0088863P.
PR 24-NOV-1997; 97US-0066120P. 11-JUN-1998; 98US-0088866P.
PR 24-NOV-1997; 97US-0066466P. 11-JUN-1998; 98US-0088876P.
PR 11-DEC-1997; 97US-0069335P. 12-JUN-1998; 98US-0089090P.
PR 12-DEC-1997; 97US-0069435P. 12-JUN-1998; 98US-0089105P.
PR 17-DEC-1997; 97US-0069870P. 12-JUN-1998; 98US-0089512P.
PR 18-DEC-1997; 97US-0068017P. 16-JUN-1998; 98US-0089514P.
PR 10-MAR-1998; 98US-0077450P. 17-JUN-1998; 98US-0089538P.
PR 11-MAR-1998; 98US-0077632P. 17-JUN-1998; 98US-0089598P.
PR 11-MAR-1998; 98US-0077649P. 18-JUN-1998; 98US-0089653P.
PR 20-MAR-1998; 98US-0078866P. 19-JUN-1998; 98US-0089952P.
PR 20-MAR-1998; 98US-0078939P. 22-JUN-1998; 98US-0090246P.
PR 27-MAR-1998; 98US-0079566P. 22-JUN-1998; 98US-0090252P.
PR 27-MAR-1998; 98US-0079786P. 22-JUN-1998; 98US-0090254P.
PR 31-MAR-1998; 98US-0080107P. 24-JUN-1998; 98US-0090429P.
PR 31-MAR-1998; 98US-0080194P. 24-JUN-1998; 98US-0090435P.
PR 01-APR-1998; 98US-0080327P. 24-JUN-1998; 98US-0090444P.
PR 01-APR-1998; 98US-0080333P. 24-JUN-1998; 98US-0090461P.
PR 08-APR-1998; 98US-0081049P. 24-JUN-1998; 98US-0090535P.
PR 08-APR-1998; 98US-0081070P. 24-JUN-1998; 98US-0090540P.
PR 09-APR-1998; 98US-0081195P. 25-JUN-1998; 98US-0090676P.
PR 15-APR-1998; 98US-0081838P. 25-JUN-1998; 98US-0090678P.
PR 21-APR-1998; 98US-0082568P. 25-JUN-1998; 98US-0090688P.
PR 21-APR-1998; 98US-0082569P. 25-JUN-1998; 98US-0090690P.
PR 22-APR-1998; 98US-0082704P. 25-JUN-1998; 98US-0090694P.
PR 22-APR-1998; 98US-0082797P. 25-JUN-1998; 98US-0090695P.
PR 28-APR-1998; 98US-0083322P. 25-JUN-1998; 98US-0090696P.
PR 29-APR-1998; 98US-0083495P. 26-JUN-1998; 98US-00105413.
PR 29-APR-1998; 98US-0083496P. 26-JUN-1998; 98US-0090862P.
PR 29-APR-1998; 98US-0083499P. 26-JUN-1998; 98US-0090863P.
PR 29-APR-1998; 98US-0083559P. 26-JUN-1998; 98US-0091010P.
PR 05-MAY-1998; 98US-0084366P. 01-JUL-1998; 98US-0091359P.
PR 06-MAY-1998; 98US-0084414P. 02-JUL-1998; 98US-0091544P.
PR 07-MAY-1998; 98US-0084639P. 02-JUL-1998; 98US-0091478P.
PR 07-MAY-1998; 98US-0084640P. 02-JUL-1998; 98US-0091486P.
PR 07-MAY-1998; 98US-0084643P. 02-JUL-1998; 98US-0091626P.
PR 15-MAY-1998; 98US-0085579P. 02-JUL-1998; 98US-0091628P.
PR 15-MAY-1998; 98US-0085580P. 02-JUL-1998; 98US-0091632P.
PR 15-MAY-1998; 98US-0085582P. 04-AUG-1998; 98US-0094006P.
PR 15-MAY-1998; 98US-0085582P. 10-AUG-1998; 98US-0095282P.
PR 15-MAY-1998; 98US-0085700P. 10-AUG-1998; 98US-0095998P.
PR 15-MAY-1998; 98US-0085700P. 10-AUG-1998; 98US-0096012P.
PR 15-MAY-1998; 98US-0085700P. 17-AUG-1998; 98US-0096757P.
PR 15-MAY-1998; 98US-0085700P. 17-AUG-1998; 98US-0096766P.
PR 15-MAY-1998; 98US-0085700P. 17-AUG-1998; 98US-0096867P.
PR 15-MAY-1998; 98US-0085700P. 17-AUG-1998; 98US-0096891P.
PR 15-MAY-1998; 98US-0085700P. 17-AUG-1998; 98US-0096897P.


```
PR 07-MAY-1998; 98US-0084643P.
PR 15-MAY-1998; 98US-0085579P.
PR 15-MAY-1998; 98US-0085580P.
PR 15-MAY-1998; 98US-0085582P.
PR 15-MAY-1998; 98US-0085700P.
PR 18-MAY-1998; 98US-0086023P.
PR 22-MAY-1998; 98US-0086392P.
PR 22-MAY-1998; 98US-0086486P.
PR 28-MAY-1998; 98US-0087098P.
PR 28-MAY-1998; 98US-0087208P.
PR 02-JUN-1998; 98US-0087609P.
PR 02-JUN-1998; 98US-0087759P.
PR 03-JUN-1998; 98US-0087827P.
PR 04-JUN-1998; 98US-0088025P.
PR 04-JUN-1998; 98US-0088028P.
PR 04-JUN-1998; 98US-0088029P.
PR 04-JUN-1998; 98US-0088033P.
PR 04-JUN-1998; 98US-0088326P.
PR 05-JUN-1998; 98US-0088167P.
PR 05-JUN-1998; 98US-0088202P.
PR 05-JUN-1998; 98US-0088212P.
PR 05-JUN-1998; 98US-0088217P.
PR 09-JUN-1998; 98US-0088655P.
PR 10-JUN-1998; 98US-0088722P.
PR 10-JUN-1998; 98US-0088738P.
PR 10-JUN-1998; 98US-0088740P.
PR 10-JUN-1998; 98US-0088811P.
PR 10-JUN-1998; 98US-0088824P.
PR 10-JUN-1998; 98US-0088825P.
PR 10-JUN-1998; 98US-0088826P.
PR 11-JUN-1998; 98US-0088861P.
PR 11-JUN-1998; 98US-0088863P.
PR 11-JUN-1998; 98US-0088876P.
PR 12-JUN-1998; 98US-0089090P.
PR 16-JUN-1998; 98US-0089105P.
PR 16-JUN-1998; 98US-0089512P.
PR 17-JUN-1998; 98US-0089514P.
PR 17-JUN-1998; 98US-0089538P.
PR 17-JUN-1998; 98US-0089598P.
PR 17-JUN-1998; 98US-0089653P.
PR 18-JUN-1998; 98US-0089908P.
PR 19-JUN-1998; 98US-0089952P.
PR 22-JUN-1998; 98US-0090246P.
PR 22-JUN-1998; 98US-0090252P.
PR 22-JUN-1998; 98US-0090254P.
PR 24-JUN-1998; 98US-0090429P.
PR 24-JUN-1998; 98US-0090435P.
PR 24-JUN-1998; 98US-0090444P.
PR 24-JUN-1998; 98US-0090461P.
PR 24-JUN-1998; 98US-0090535P.
PR 24-JUN-1998; 98US-0090540P.
PR 25-JUN-1998; 98US-0090676P.
PR 25-JUN-1998; 98US-0090678P.
PR 25-JUN-1998; 98US-0090688P.
PR 25-JUN-1998; 98US-0090690P.
PR 25-JUN-1998; 98US-0090694P.
PR 25-JUN-1998; 98US-0090695P.
PR 25-JUN-1998; 98US-0090696P.
PR 26-JUN-1998; 98US-00105413.
PR 26-JUN-1998; 98US-0090862P.
PR 26-JUN-1998; 98US-0090863P.
PR 26-JUN-1998; 98US-0091010P.
PR 01-JUL-1998; 98US-0091359P.
PR 01-JUL-1998; 98US-0091478P.
PR 02-JUL-1998; 98US-0091486P.
PR 02-JUL-1998; 98US-0091626P.
PR 02-JUL-1998; 98US-0091628P.
PR 02-JUL-1998; 98US-0091632P.
PR 24-JUL-1998; 98US-0094006P.
PR 04-AUG-1998; 98US-0095282P.
PR 10-AUG-1998; 98US-0095998P.
PR 10-AUG-1998; 98US-0096012P.

PR 17-AUG-1998; 98US-0096757P.
PR 17-AUG-1998; 98US-0096766P.
PR 17-AUG-1998; 98US-0096867P.
PR 17-AUG-1998; 98US-0096891P.
PR 17-AUG-1998; 98US-0096897P.
PR 18-AUG-1998; 98US-0096949P.
PR 18-AUG-1998; 98US-0096959P.
PR 18-AUG-1998; 98US-0097022P.
PR 26-AUG-1998; 98US-0097952P.
PR 26-AUG-1998; 98US-0097954P.
PR 26-AUG-1998; 98US-0097955P.
PR 26-AUG-1998; 98US-0097971P.
PR 26-AUG-1998; 98US-0097974P.
PR 26-AUG-1998; 98US-0098014P.
PR 01-SEP-1998; 98US-0098716P.
PR 01-SEP-1998; 98US-0098723P.
PR 02-SEP-1998; 98US-0098803P.
PR 02-SEP-1998; 98US-0098821P.
PR 02-SEP-1998; 98US-0098843P.
PR 09-SEP-1998; 98US-0099602P.
PR 10-SEP-1998; 98US-0099741P.
PR 10-SEP-1998; 98US-0099754P.
PR 10-SEP-1998; 98US-0099763P.
PR 10-SEP-1998; 98US-0099812P.
PR 15-SEP-1998; 98US-0100388P.
PR 16-SEP-1998; 98US-0100662P.
PR 16-SEP-1998; 98US-0100664P.
PR 16-SEP-1998; 98US-0101751P.
PR 16-SEP-1998; 98WO-US019330.
PR 17-SEP-1998; 98US-0100683P.
PR 17-SEP-1998; 98US-0100684P.
PR 17-SEP-1998; 98US-0100919P.
PR 17-SEP-1998; 98US-0100930P.
PR 18-SEP-1998; 98US-0100849P.
PR 18-SEP-1998; 98US-0101014P.
PR 23-SEP-1998; 98US-0101471P.
PR 23-SEP-1998; 98US-0101472P.
PR 23-SEP-1998; 98US-0101475P.
PR 23-SEP-1998; 98US-0101477P.
PR 24-SEP-1998; 98US-0101738P.
PR 24-SEP-1998; 98US-0101739P.
PR 24-SEP-1998; 98US-0101743P.
PR 24-SEP-1998; 98US-0101922P.
PR 25-SEP-1998; 98US-0101786P.
PR 25-SEP-1998; 98US-0102207P.
PR 29-SEP-1998; 98US-0102240P.
PR 29-SEP-1998; 98US-0102330P.
PR 29-SEP-1998; 98US-0102331P.
PR 30-SEP-1998; 98US-0102487P.
PR 30-SEP-1998; 98US-0102570P.
PR 30-SEP-1998; 98US-0102571P.
PR 01-OCT-1998; 98US-0102684P.
PR 01-OCT-1998; 98US-0102687P.

Query Match 35.5%; Score 150; DB 6; Length 440;
Best Local Similarity 100.0%; Pred. No. 7.7e-135;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 16 SAALPTGQGLFTKDVTVIEGVATISCVNKSDDSVIQLNPNROTIFYRDFRPLK 75
Db 32 SAALPTGQGLFTKDVTVIEGVATISCVNKSDDSVIQLNPNROTIFYRDFRPLK 91
Qy 76 DSRFQLNFSSELKVLSTNVSISDEGRYFCQLYTDPQESYTTITVLVPPNLMIDIQK 135
Db 92 DSRFQLNFSSELKVLSTNVSISDEGRYFCQLYTDPQESYTTITVLVPPNLMIDIQK 151
Qy 136 DTAVEGEEIEVNCNTAMASKPATIRWFKGN 165
Db 152 DTAVEGEEIEVNCNTAMASKPATIRWFKGN 181

RESULT 17
```

ABR65543
ID ABR65543 standard; protein; 440 AA.
XX
AC ABR65543;
XX
DT 05-AUG-2003 (first entry)
XX
DE Human secreted polypeptide PRO355, SEQ ID NO:34.
XX
XX
KW Human; PRO; secreted protein; transmembrane protein;
KW extracellular domain; tumour necrosis factor-alpha; TNF-alpha;
KW chondrocyte; proliferation; differentiation; cartilage disorder;
KW bone disorder; arthritis; sports injury; cancer; tumour; diagnosis;
KW adrenal tumour; lung; colon; breast; prostate; kidney; rectum; cervix;
KW liver; drug screening; transgenic animal; genetic analysis;
KW antiarthritic; vulnery; gene therapy.
XX
OS Homo sapiens.
XX
PN US2003036159-A1.
XX
PD 20-FEB-2003.
XX
PF 02-JUL-2002; 2002US-00188773.
XX
PR 18-SEP-1997; 97US-0059263P.
PR 18-SEP-1997; 97US-0059266P.
PR 17-OCT-1997; 97US-0062250P.
PR 21-OCT-1997; 97US-0063486P.
PR 24-OCT-1997; 97US-0063120P.
PR 24-OCT-1997; 97US-0063121P.
PR 28-OCT-1997; 97US-0063540P.
PR 28-OCT-1997; 97US-0063541P.
PR 28-OCT-1997; 97US-0063544P.
PR 28-OCT-1997; 97US-0063564P.
PR 29-OCT-1997; 97US-0063734P.
PR 31-OCT-1997; 97US-0063870P.
PR 31-OCT-1997; 97US-0064103P.
PR 13-NOV-1997; 97US-0065311P.
PR 21-NOV-1997; 97US-0066120P.
PR 24-NOV-1997; 97US-0066466P.
PR 24-NOV-1997; 97US-0066772P.
PR 11-DEC-1997; 97US-0069335P.
PR 12-DEC-1997; 97US-0069425P.
PR 17-DEC-1997; 97US-0069870P.
PR 18-DEC-1997; 97US-0068017P.
PR 10-MAR-1998; 98US-0077450P.
PR 11-MAR-1998; 98US-0077632P.
PR 11-MAR-1998; 98US-0077649P.
PR 20-MAR-1998; 98US-0078886P.
PR 20-MAR-1998; 98US-0078939P.
PR 27-MAR-1998; 98US-0079664P.
PR 27-MAR-1998; 98US-0079786P.
PR 31-MAR-1998; 98US-0080107P.
PR 31-MAR-1998; 98US-0080194P.
PR 01-APR-1998; 98US-0080327P.
PR 01-APR-1998; 98US-0080333P.
PR 08-APR-1998; 98US-0081049P.
PR 08-APR-1998; 98US-0081070P.
PR 09-APR-1998; 98US-0081195P.
PR 15-APR-1998; 98US-0081838P.
PR 21-APR-1998; 98US-0082568P.
PR 21-APR-1998; 98US-0082569P.
PR 22-APR-1998; 98US-0082704P.
PR 22-APR-1998; 98US-0082737P.
PR 28-APR-1998; 98US-0083322P.
PR 29-APR-1998; 98US-0083495P.
PR 29-APR-1998; 98US-0083496P.
PR 29-APR-1998; 98US-0083499P.
PR 29-APR-1998; 98US-0083559P.
PR 05-MAY-1998; 98US-0084366P.
PR 06-MAY-1998; 98US-0084414P.
PR 07-MAY-1998; 98US-0084639P.
PR 07-MAY-1998; 98US-0084640P.
PR 07-MAY-1998; 98US-0084643P.
PR 15-MAY-1998; 98US-0085579P.
PR 15-MAY-1998; 98US-0085580P.
PR 15-MAY-1998; 98US-0085582P.
PR 15-MAY-1998; 98US-0085700P.
PR 18-MAY-1998; 98US-0086023P.
PR 22-MAY-1998; 98US-0086392P.
PR 22-MAY-1998; 98US-0086486P.
PR 28-MAY-1998; 98US-0087098P.
PR 28-MAY-1998; 98US-0087208P.
PR 02-JUN-1998; 98US-0087609P.
PR 02-JUN-1998; 98US-0087759P.
PR 03-JUN-1998; 98US-0087827P.
PR 04-JUN-1998; 98US-0088025P.
PR 04-JUN-1998; 98US-0088028P.
PR 04-JUN-1998; 98US-0088029P.
PR 04-JUN-1998; 98US-0088033P.
PR 04-JUN-1998; 98US-0088326P.
PR 05-JUN-1998; 98US-0088167P.
PR 05-JUN-1998; 98US-0088202P.
PR 05-JUN-1998; 98US-0088212P.
PR 05-JUN-1998; 98US-0088217P.
PR 09-JUN-1998; 98US-0088655P.
PR 10-JUN-1998; 98US-0088722P.
PR 10-JUN-1998; 98US-0088738P.
PR 10-JUN-1998; 98US-0088740P.
PR 10-JUN-1998; 98US-0088811P.
PR 10-JUN-1998; 98US-0088824P.
PR 10-JUN-1998; 98US-0088825P.
PR 10-JUN-1998; 98US-0088826P.
PR 11-JUN-1998; 98US-0088861P.
PR 11-JUN-1998; 98US-0088863P.
PR 11-JUN-1998; 98US-0088876P.
PR 12-JUN-1998; 98US-0089090P.
PR 12-JUN-1998; 98US-0089105P.
PR 16-JUN-1998; 98US-0089512P.
PR 16-JUN-1998; 98US-0089514P.
PR 17-JUN-1998; 98US-0089538P.
PR 17-JUN-1998; 98US-0089598P.
PR 17-JUN-1998; 98US-0089653P.
PR 18-JUN-1998; 98US-0089908P.
PR 19-JUN-1998; 98US-0089952P.
PR 22-JUN-1998; 98US-0090246P.
PR 22-JUN-1998; 98US-0090252P.
PR 22-JUN-1998; 98US-0090254P.
PR 24-JUN-1998; 98US-0090429P.
PR 24-JUN-1998; 98US-0090435P.
PR 24-JUN-1998; 98US-0090444P.
PR 24-JUN-1998; 98US-0090461P.
PR 24-JUN-1998; 98US-0090535P.
PR 24-JUN-1998; 98US-0090540P.
PR 25-JUN-1998; 98US-0090676P.
PR 25-JUN-1998; 98US-0090678P.
PR 25-JUN-1998; 98US-0090688P.
PR 25-JUN-1998; 98US-0090690P.
PR 25-JUN-1998; 98US-0090694P.
PR 25-JUN-1998; 98US-0090695P.
PR 25-JUN-1998; 98US-0090896P.
PR 26-JUN-1998; 98US-00105413.
PR 26-JUN-1998; 98US-0090862P.
PR 26-JUN-1998; 98US-0090863P.
PR 26-JUN-1998; 98US-0091010P.
PR 01-JUL-1998; 98US-0091359P.
PR 02-JUL-1998; 98US-0091344P.
PR 02-JUL-1998; 98US-0091478P.
PR 02-JUL-1998; 98US-0091486P.
PR 02-JUL-1998; 98US-0091626P.
PR 02-JUL-1998; 98US-0091628P.
PR 02-JUL-1998; 98US-0091632P.
PR 24-JUL-1998; 98US-0094006P.
PR 04-AUG-1998; 98US-0095282P.
PR 10-AUG-1998; 98US-0095998P.

```
PR 10-AUG-1998; 98US-0096012P.
PR 17-AUG-1998; 98US-0096757P.
PR 17-AUG-1998; 98US-0096766P.
PR 17-AUG-1998; 98US-0096867P.
PR 17-AUG-1998; 98US-0096891P.
PR 17-AUG-1998; 98US-0096897P.
PR 18-AUG-1998; 98US-0096949P.
PR 18-AUG-1998; 98US-0096959P.
PR 18-AUG-1998; 98US-0097022P.
PR 26-AUG-1998; 98US-0097952P.
PR 26-AUG-1998; 98US-0097954P.
PR 26-AUG-1998; 98US-0097955P.
PR 26-AUG-1998; 98US-0097971P.
PR 26-AUG-1998; 98US-0097974P.
PR 26-AUG-1998; 98US-0098014P.
PR 01-SEP-1998; 98US-0098716P.
PR 01-SEP-1998; 98US-0098723P.
PR 02-SEP-1998; 98US-0098803P.
PR 02-SEP-1998; 98US-0098821P.
PR 02-SEP-1998; 98US-0098843P.
PR 09-SEP-1998; 98US-0098602P.
PR 10-SEP-1998; 98US-0099741P.
PR 10-SEP-1998; 98US-0099754P.
PR 10-SEP-1998; 98US-0099763P.
PR 15-SEP-1998; 98US-0099812P.
PR 16-SEP-1998; 98US-0100662P.
PR 16-SEP-1998; 98US-0100664P.
PR 16-SEP-1998; 98US-0101751P.
PR 16-SEP-1998; 98WO-US019330.
PR 17-SEP-1998; 98US-0100683P.
PR 17-SEP-1998; 98US-0100684P.
PR 17-SEP-1998; 98US-0100919P.
PR 17-SEP-1998; 98US-0100930P.
PR 18-SEP-1998; 98US-0100849P.
PR 18-SEP-1998; 98US-0101014P.
PR 18-SEP-1998; 98US-0101068P.
PR 23-SEP-1998; 98US-0101472P.
PR 23-SEP-1998; 98US-0101472P.
PR 23-SEP-1998; 98US-0101475P.
PR 23-SEP-1998; 98US-0101477P.
PR 24-SEP-1998; 98US-0101738P.
PR 24-SEP-1998; 98US-0101739P.
PR 24-SEP-1998; 98US-0101743P.
PR 25-SEP-1998; 98US-0101922P.
PR 25-SEP-1998; 98US-0101786P.
PR 29-SEP-1998; 98US-0102207P.
PR 29-SEP-1998; 98US-0102240P.
PR 29-SEP-1998; 98US-0102330P.
PR 29-SEP-1998; 98US-0102331P.
PR 30-SEP-1998; 98US-0102487P.
PR 30-SEP-1998; 98US-0102570P.
PR 30-SEP-1998; 98US-0102571P.
PR 01-OCT-1998; 98US-0102684P.
PR 01-OCT-1998; 98US-0102687P.

Query Match 35.5%; Score 150; DB 6; Length 440;
Best Local Similarity 100.0%; Pred. No. 7.7e-135;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 16 SAALITGDGQNLFTKDVTVIEGEVATISQVKNKSDSVIQLLNPNRQTIYFRDRLK 75
Db 32 SAALITGDGQNLFTKDVTVIEGEVATISQVKNKSDSVIQLLNPNRQTIYFRDRLK 91

Qy 76 DSRFQLNFSSELKSVLTNVSISDEGRYFCQLYTDPQESYTTITVLVPPNLMIDIQK 135
Db 92 DSRFQLNFSSELKSVLTNVSISDEGRYFCQLYTDPQESYTTITVLVPPNLMIDIQK 151

Qy 136 DTAVEGEIEVNCCTAMASKPATTIRWFKGN 165
Db 152 DTAVEGEIEVNCCTAMASKPATTIRWFKGN 181
```

```
RESULT 18
ABU99483
ID ABU99483 standard; protein; 440 AA.
XX AC ABU99483;
XX DT 09-AUG-2003 (first entry)
XX DE Human secreted/transmembrane protein (PRO) #17.
XX KW Human; secreted and transmembrane protein; PRO; TNF-alpha;
KW tumour necrosis factor alpha; chondrocyte cell; tumour; gene therapy;
XX tissue typing.
XX OS Homo sapiens.
XX PN US2003040070-A1.
XX PD 27-FEB-2003.
XX PF 27-JUN-2002; 2002US-00184627.
XX PR 18-SEP-1997; 97US-0059263P.
PR 18-SEP-1997; 97US-0059266P.
PR 17-OCT-1997; 97US-0062250P.
PR 21-OCT-1997; 97US-0063486P.
PR 24-OCT-1997; 97US-0063120P.
PR 24-OCT-1997; 97US-0063121P.
PR 28-OCT-1997; 97US-0063540P.
PR 28-OCT-1997; 97US-0063541P.
PR 28-OCT-1997; 97US-0063544P.
PR 28-OCT-1997; 97US-0063564P.
PR 29-OCT-1997; 97US-0063734P.
PR 31-OCT-1997; 97US-0063870P.
PR 13-NOV-1997; 97US-0064103P.
PR 21-NOV-1997; 97US-0066120P.
PR 24-NOV-1997; 97US-0066466P.
PR 24-NOV-1997; 97US-0066772P.
PR 12-DEC-1997; 97US-0069335P.
PR 12-DEC-1997; 97US-0069425P.
PR 17-DEC-1997; 97US-0069870P.
PR 18-DEC-1997; 97US-0068017P.
PR 10-MAR-1998; 98US-0077450P.
PR 11-MAR-1998; 98US-0077632P.
PR 11-MAR-1998; 98US-0077649P.
PR 20-MAR-1998; 98US-0078886P.
PR 20-MAR-1998; 98US-0078939P.
PR 27-MAR-1998; 98US-0079664P.
PR 27-MAR-1998; 98US-0079786P.
PR 31-MAR-1998; 98US-0080107P.
PR 31-MAR-1998; 98US-0080194P.
PR 01-APR-1998; 98US-0080327P.
PR 01-APR-1998; 98US-0080333P.
PR 08-APR-1998; 98US-0081049P.
PR 08-APR-1998; 98US-0081070P.
PR 09-APR-1998; 98US-0081195P.
PR 15-APR-1998; 98US-0081838P.
PR 21-APR-1998; 98US-0082568P.
PR 21-APR-1998; 98US-0082569P.
PR 22-APR-1998; 98US-0082704P.
PR 22-APR-1998; 98US-0082797P.
PR 28-APR-1998; 98US-0083322P.
PR 29-APR-1998; 98US-0083495P.
PR 29-APR-1998; 98US-0083496P.
PR 29-APR-1998; 98US-0083499P.
PR 29-APR-1998; 98US-0083559P.
PR 05-MAY-1998; 98US-0084366P.
PR 06-MAY-1998; 98US-0084414P.
PR 07-MAY-1998; 98US-0084639P.
PR 07-MAY-1998; 98US-0084640P.
PR 07-MAY-1998; 98US-0084643P.
PR 15-MAY-1998; 98US-0085579P.
```

PR 15-MAY-1998; 98US-0085580P.
PR 15-MAY-1998; 98US-0085582P.
PR 15-MAY-1998; 98US-0085700P.
PR 18-MAY-1998; 98US-0086023P.
PR 22-MAY-1998; 98US-0086392P.
PR 22-MAY-1998; 98US-0086486P.
PR 28-MAY-1998; 98US-0087098P.
PR 28-MAY-1998; 98US-0087208P.
PR 02-JUN-1998; 98US-0087609P.
PR 02-JUN-1998; 98US-0087759P.
PR 03-JUN-1998; 98US-0087827P.
PR 04-JUN-1998; 98US-0088025P.
PR 04-JUN-1998; 98US-0088028P.
PR 04-JUN-1998; 98US-0088029P.
PR 04-JUN-1998; 98US-0088033P.
PR 04-JUN-1998; 98US-0088326P.
PR 05-JUN-1998; 98US-0088367P.
PR 05-JUN-1998; 98US-0088167P.
PR 05-JUN-1998; 98US-0088202P.
PR 05-JUN-1998; 98US-0088212P.
PR 05-JUN-1998; 98US-0088217P.
PR 09-JUN-1998; 98US-0088655P.
PR 10-JUN-1998; 98US-0088722P.
PR 10-JUN-1998; 98US-0088738P.
PR 10-JUN-1998; 98US-0088740P.
PR 10-JUN-1998; 98US-0088811P.
PR 10-JUN-1998; 98US-0088824P.
PR 10-JUN-1998; 98US-0088825P.
PR 10-JUN-1998; 98US-0088826P.
PR 11-JUN-1998; 98US-0088861P.
PR 11-JUN-1998; 98US-0088863P.
PR 11-JUN-1998; 98US-0088866P.
PR 12-JUN-1998; 98US-0089090P.
PR 12-JUN-1998; 98US-0089105P.
PR 16-JUN-1998; 98US-0089512P.
PR 16-JUN-1998; 98US-0089514P.
PR 17-JUN-1998; 98US-0089538P.
PR 17-JUN-1998; 98US-0089598P.
PR 17-JUN-1998; 98US-0089653P.
PR 18-JUN-1998; 98US-0089908P.
PR 19-JUN-1998; 98US-0089952P.
PR 22-JUN-1998; 98US-0090246P.
PR 22-JUN-1998; 98US-0090252P.
PR 22-JUN-1998; 98US-0090254P.
PR 24-JUN-1998; 98US-0090429P.
PR 24-JUN-1998; 98US-0090435P.
PR 24-JUN-1998; 98US-0090444P.
PR 24-JUN-1998; 98US-0090461P.
PR 24-JUN-1998; 98US-0090535P.
PR 24-JUN-1998; 98US-0090540P.
PR 25-JUN-1998; 98US-0090676P.
PR 25-JUN-1998; 98US-0090678P.
PR 25-JUN-1998; 98US-0090688P.
PR 25-JUN-1998; 98US-0090690P.
PR 25-JUN-1998; 98US-0090694P.
PR 25-JUN-1998; 98US-0090695P.
PR 25-JUN-1998; 98US-0090696P.
PR 26-JUN-1998; 98US-00105413.
PR 26-JUN-1998; 98US-0090862P.
PR 26-JUN-1998; 98US-0090863P.
PR 26-JUN-1998; 98US-0091010P.
PR 01-JUL-1998; 98US-0091359P.
PR 01-JUL-1998; 98US-0091544P.
PR 02-JUL-1998; 98US-0091478P.
PR 02-JUL-1998; 98US-0091486P.
PR 02-JUL-1998; 98US-0091626P.
PR 02-JUL-1998; 98US-0091628P.
PR 02-JUL-1998; 98US-0091632P.
PR 24-JUL-1998; 98US-0094006P.
PR 04-AUG-1998; 98US-0095282P.
PR 10-AUG-1998; 98US-0095998P.
PR 10-AUG-1998; 98US-0096012P.
PR 17-AUG-1998; 98US-0096757P.
PR 17-AUG-1998; 98US-0096766P.

PR 17-AUG-1998; 98US-0096867P.
PR 17-AUG-1998; 98US-0096891P.
PR 17-AUG-1998; 98US-0096897P.
PR 18-AUG-1998; 98US-0096949P.
PR 18-AUG-1998; 98US-0096959P.
PR 18-AUG-1998; 98US-0097022P.
PR 26-AUG-1998; 98US-0097952P.
PR 26-AUG-1998; 98US-0097954P.
PR 26-AUG-1998; 98US-0097955P.
PR 26-AUG-1998; 98US-0097971P.
PR 26-AUG-1998; 98US-0097974P.
PR 26-AUG-1998; 98US-0098014P.
PR 01-SEP-1998; 98US-0098716P.
PR 01-SEP-1998; 98US-0098723P.
PR 02-SEP-1998; 98US-0098803P.
PR 02-SEP-1998; 98US-0098821P.
PR 02-SEP-1998; 98US-0098843P.
PR 09-SEP-1998; 98US-0098602P.
PR 10-SEP-1998; 98US-0099741P.
PR 10-SEP-1998; 98US-0099754P.
PR 10-SEP-1998; 98US-0099763P.
PR 10-SEP-1998; 98US-0099812P.
PR 15-SEP-1998; 98US-0100388P.
PR 16-SEP-1998; 98US-0100662P.
PR 16-SEP-1998; 98US-0100664P.
PR 16-SEP-1998; 98US-0101751P.
PR 16-SEP-1998; 98WO-US019330.
PR 17-SEP-1998; 98US-0100683P.
PR 17-SEP-1998; 98US-0100684P.
PR 17-SEP-1998; 98US-0100919P.
PR 17-SEP-1998; 98US-0100930P.
PR 18-SEP-1998; 98US-0100849P.
PR 18-SEP-1998; 98US-0101014P.
PR 18-SEP-1998; 98US-0101068P.
PR 23-SEP-1998; 98US-0101471P.
PR 23-SEP-1998; 98US-0101472P.
PR 23-SEP-1998; 98US-0101475P.
PR 24-SEP-1998; 98US-0101477P.
PR 24-SEP-1998; 98US-0101738P.
PR 24-SEP-1998; 98US-0101739P.
PR 24-SEP-1998; 98US-0101743P.
PR 24-SEP-1998; 98US-0101922P.
PR 24-SEP-1998; 98US-0101926P.
PR 25-SEP-1998; 98US-0101786P.
PR 25-SEP-1998; 98US-0102207P.
PR 29-SEP-1998; 98US-0102240P.
PR 29-SEP-1998; 98US-0102330P.
PR 29-SEP-1998; 98US-0102331P.
PR 30-SEP-1998; 98US-0102487P.
PR 30-SEP-1998; 98US-0102570P.
PR 30-SEP-1998; 98US-0102571P.
PR 01-OCT-1998; 98US-0102684P.
PR 01-OCT-1998; 98US-0102687P.
PR 02-OCT-1998; 98US-0102965P.
PR 06-OCT-1998; 98US-0103258P.
PR 06-OCT-1998; 98US-0103449P.
PR 07-OCT-1998; 98US-00168978.

Query Match 35.5%; Score 150; DB 6; Length 440;

Best Local Similarity 100.0%; Pred. No. 7.7e-135; Indels 0; Gaps 0;
Matches 150; Conservative 0; Mismatches 0;

Qy 16 SAAALPTGQNLFTKDVTVIEGEVATISCVNKSDDSVIQLNPNRQTIYFRDPRPK 75
|||||

Db 32 SAAALPTGQNLFTKDVTVIEGEVATISCVNKSDDSVIQLNPNRQTIYFRDPRPK 91
|||||

Qy 76 DSRFQLNFSSELKVLSTNVISDGRYFCQLYTDPQESYTTITVLVPPRLMIDIQ 135
|||||

Db 92 DSRFQLNFSSELKVLSTNVISDGRYFCQLYTDPQESYTTITVLVPPRLMIDIQ 151
|||||

Qy 136 DTAVEGEEIEVNCTAMASKPATTIRWFKGN 165
|||||

Db 152 DTAVEGEEIEVNCTAMASKPATTIRWFKGN 181
|||||

RESULT 19

ABUS5930
ID ABUS5930 standard; protein; 440 AA.
XX AC
XX ABUS5930;
XX DT 26-MAR-2003 (first entry)
XX DE Human secreted/transmembrane protein PRO3355.
XX KW Human; PRO; secreted protein; transmembrane protein; anti-HIV;
KW cytosolic; antiarteriosclerotic; antiinflammatory; antidiabetic;
KW cardiant; AIDS; acquired immunodeficiency syndrome; cancer;
KW atherosclerosis; inflammatory disease; diabetic complication;
KW cardiac injury; organ failure.
XX OS Homo sapiens.
XX PN US2002142959-A1.
XX PD 03-OCT-2002.
XX PF 31-AUG-2001; 2001US-00944654.
XX PR 16-SEP-1998; 98WO-US019330.
PR 01-DEC-1998; 98WO-US025108.
PR 22-JUN-1999; 99WO-US012252.
PR 15-SEP-1999; 99WO-US021090.
PR 30-NOV-1999; 99WO-US028313.
PR 30-NOV-1999; 99WO-US028409.
PR 01-DEC-1999; 99WO-US028301.
PR 16-DEC-1999; 99WO-US030095.
PR 11-FEB-2000; 2000WO-US003565.
PR 02-FEB-2000; 2000WO-US004414.
PR 02-MAR-2000; 2000WO-US005841.
PR 30-MAR-2000; 2000WO-US008439.
PR 22-MAY-2000; 2000WO-US014042.
PR 28-JUL-2000; 2000WO-US020710.
PR 01-DEC-2000; 2000WO-US032678.
PR 28-FEB-2001; 2001WO-US006520.
PR 25-MAY-2001; 2001US-00866028.
XX (GETH) GENENTECH INC.
XX Baker KP, Botstein D, Eaton DL, Ferrara N, Filvaroff E;
XX Gerritsen ME, Goddard A, Godowski PJ, Grimaldi JC, Gurney AL;
XX Hillan KJ, Kljavin IJ, Napier MA, Roy MA, Tumas D, Wood WI;
XX WPI; 2003-174141/17.
XX N-PSDB; ABX75486.
XX New isolated PRO polypeptide and encoding nucleic acid, useful for the
XX diagnosis and treatment of disorders associated with the PRO polypeptide,
XX such as AIDS, cancer, atherosclerosis, inflammatory disease and diabetes.
XX Claim 12; Fig 24; 178pp; English.

XX The invention relates to an isolated PRO polypeptide (a secreted or
XX transmembrane protein) comprising: (a) at least 80% sequence identity or
XX positives when compared to any of 15 sequences, fully defined in the
XX specification, lacking or with its associated signal peptide; or (b) at
XX least 80% sequence identity to a sequence encoded by the full-length
XX coding sequence of a DNA deposited in the American Type Culture
XX Collection (ATCC). Also included are: (1) an isolated nucleic acid
XX comprising: (a) at least 80% sequence identity to a nucleotide sequence
XX that encodes a PRO protein; (b) at least 80% sequence identity to a
XX nucleotide sequence or full-length coding sequence with any of 15 fully
XX defined sequences of 957-3441 base pairs, given in the specification; or
XX (c) at least 80% sequence identity to a full-length coding sequence of a
XX DNA deposited under ATCC Accession No. 209526, 209508, 209524, 209528,
XX 209530, 209523, 209492, 209532, 209531, 209529, 209527, 209570, 209618,
XX 209621 or 209619; (2) a vector comprising the nucleic acid; (3) a host

CC cell comprising the vector which, when cultured under conditions suitable
CC for expression of the PRO polypeptide, produces the PRO protein; (4) a
CC chimeric molecule comprising PRO fused to a heterologous amino acid
CC sequence; and (5) an anti-PRO antibody. The methods and compositions of
CC the present invention are useful for the diagnosis and treatment of
CC disorders associated with the PRO polypeptide, such as AIDS (acquired
CC immunodeficiency syndrome), cancer, atherosclerosis, inflammatory
CC disease, diabetic complications, cardiac injury and organ failure. The
CC antibodies can also be used in the different screening, therapeutic and
CC biological assays. The present sequence represents a PRO protein
XX
SQ Sequence 440 AA;

Query Match 35.5%; Score 150; DB 6; Length 440;

Best Local Similarity 100.0%; Pred. No. 7.7e-135;

Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 16 SAAALIPGTGQNLFTKDVTVIEGEVATISQVNVKSDSVIQLNPNRQTIYFRDRPLK 75

DB 32 SAAALIPGTGQNLFTKDVTVIEGEVATISQVNVKSDSVIQLNPNRQTIYFRDRPLK 91

QY 76 DSRFQLNLFSSSELKSLTNVSIISDEGRYFCQLYTDPPQESYTTITVLVPPRNLMDIQK 135

DB 92 DSRFQLNLFSSSELKSLTNVSIISDEGRYFCQLYTDPPQESYTTITVLVPPRNLMDIQK 151

QY 136 DTAVEGEIEIVNCTAMASKPATIRWFKGN 165

DB 152 DTAVEGEIEIVNCTAMASKPATIRWFKGN 181

RESULT 20

ABUS2722

ID ABUS2722 standard; protein; 440 AA.

XX AC ABUS2722;

XX DT 27-JUN-2003 (first entry)

XX DE Human PRO polypeptide #17.

XX KW Human; PRO polypeptide; secreted and transmembrane protein; tumour;

XX chromosome mapping; gene mapping; cytostatic.

XX OS Homo sapiens.

XX US2003032113-A1.

XX PD 13-FEB-2003.

XX PF 20-JUN-2002; 2002US-00176911.

XX PR 18-SEP-1997; 97US-0059263P.

XX PR 18-SEP-1997; 97US-0059266P.

XX PR 17-OCT-1997; 97US-0062250P.

XX PR 21-OCT-1997; 97US-0063486P.

XX PR 24-OCT-1997; 97US-0063120P.

XX PR 28-OCT-1997; 97US-0063121P.

XX PR 28-OCT-1997; 97US-0063540P.

XX PR 28-OCT-1997; 97US-0063541P.

XX PR 28-OCT-1997; 97US-0063544P.

XX PR 28-OCT-1997; 97US-0063564P.

XX PR 31-OCT-1997; 97US-0063734P.

XX PR 31-OCT-1997; 97US-0063870P.

XX PR 31-OCT-1997; 97US-0064103P.

XX PR 13-NOV-1997; 97US-0065311P.

XX PR 21-NOV-1997; 97US-0066120P.

XX PR 24-NOV-1997; 97US-0066466P.

XX PR 24-NOV-1997; 97US-0066772P.

XX PR 11-DEC-1997; 97US-0069335P.

XX PR 12-DEC-1997; 97US-0069425P.

XX PR 17-DEC-1997; 97US-0069870P.

XX PR 18-DEC-1997; 97US-0068017P.

XX PR 10-MAR-1998; 98US-0077450P.

PR 11-MAR-1998; 98US-0077632P.
PR 11-MAR-1998; 98US-0077649P.
PR 20-MAR-1998; 98US-0078886P.
PR 20-MAR-1998; 98US-0078939P.
PR 27-MAR-1998; 98US-0079664P.
PR 27-MAR-1998; 98US-0079786P.
PR 31-MAR-1998; 98US-0080107P.
PR 31-MAR-1998; 98US-0080194P.
PR 01-APR-1998; 98US-0080327P.
PR 01-APR-1998; 98US-0080333P.
PR 08-APR-1998; 98US-0081049P.
PR 08-APR-1998; 98US-0081070P.
PR 09-APR-1998; 98US-0081195P.
PR 15-APR-1998; 98US-0081838P.
PR 21-APR-1998; 98US-0082568P.
PR 21-APR-1998; 98US-0082569P.
PR 22-APR-1998; 98US-0082704P.
PR 22-APR-1998; 98US-0082797P.
PR 28-APR-1998; 98US-0083322P.
PR 29-APR-1998; 98US-0083495P.
PR 29-APR-1998; 98US-0083496P.
PR 29-APR-1998; 98US-0083499P.
PR 29-APR-1998; 98US-0083559P.
PR 03-MAY-1998; 98US-0084366P.
PR 06-MAY-1998; 98US-0084414P.
PR 07-MAY-1998; 98US-0084639P.
PR 07-MAY-1998; 98US-0084640P.
PR 07-MAY-1998; 98US-0084643P.
PR 15-MAY-1998; 98US-0085579P.
PR 15-MAY-1998; 98US-0085580P.
PR 15-MAY-1998; 98US-0085582P.
PR 15-MAY-1998; 98US-0085700P.
PR 18-MAY-1998; 98US-0086023P.
PR 22-MAY-1998; 98US-0086392P.
PR 22-MAY-1998; 98US-0086486P.
PR 28-MAY-1998; 98US-0087098P.
PR 28-MAY-1998; 98US-0087208P.
PR 02-JUN-1998; 98US-0087609P.
PR 02-JUN-1998; 98US-0087759P.
PR 03-JUN-1998; 98US-0087827P.
PR 04-JUN-1998; 98US-0088025P.
PR 04-JUN-1998; 98US-0088028P.
PR 04-JUN-1998; 98US-0088029P.
PR 04-JUN-1998; 98US-0088033P.
PR 04-JUN-1998; 98US-0088326P.
PR 05-JUN-1998; 98US-0088167P.
PR 05-JUN-1998; 98US-0088202P.
PR 05-JUN-1998; 98US-0088212P.
PR 05-JUN-1998; 98US-0088217P.
PR 09-JUN-1998; 98US-0088655P.
PR 10-JUN-1998; 98US-0088722P.
PR 10-JUN-1998; 98US-0088718P.
PR 10-JUN-1998; 98US-0088740P.
PR 10-JUN-1998; 98US-0088811P.
PR 10-JUN-1998; 98US-0088824P.
PR 10-JUN-1998; 98US-0088825P.
PR 10-JUN-1998; 98US-0088826P.
PR 11-JUN-1998; 98US-0088861P.
PR 11-JUN-1998; 98US-0088863P.
PR 11-JUN-1998; 98US-0088876P.
PR 12-JUN-1998; 98US-0089090P.
PR 12-JUN-1998; 98US-0089105P.
PR 16-JUN-1998; 98US-0089512P.
PR 16-JUN-1998; 98US-0089514P.
PR 17-JUN-1998; 98US-0089538P.
PR 17-JUN-1998; 98US-0089598P.
PR 17-JUN-1998; 98US-0089653P.
PR 18-JUN-1998; 98US-0089908P.
PR 19-JUN-1998; 98US-0089952P.
PR 22-JUN-1998; 98US-0090246P.
PR 22-JUN-1998; 98US-0090252P.
PR 24-JUN-1998; 98US-0090254P.
PR 24-JUN-1998; 98US-0090429P.
PR 24-JUN-1998; 98US-0090435P.
PR 24-JUN-1998; 98US-0090444P.
PR 24-JUN-1998; 98US-0090461P.
PR 24-JUN-1998; 98US-0090535P.
PR 24-JUN-1998; 98US-0090540P.
PR 25-JUN-1998; 98US-0090676P.
PR 25-JUN-1998; 98US-0090678P.
PR 25-JUN-1998; 98US-0090688P.
PR 25-JUN-1998; 98US-0090690P.
PR 25-JUN-1998; 98US-0090694P.
PR 25-JUN-1998; 98US-0090695P.
PR 25-JUN-1998; 98US-0090696P.
PR 26-JUN-1998; 98US-00105413.
PR 26-JUN-1998; 98US-0090862P.
PR 26-JUN-1998; 98US-0090863P.
PR 26-JUN-1998; 98US-0091010P.
PR 01-JUL-1998; 98US-0091359P.
PR 01-JUL-1998; 98US-0091544P.
PR 02-JUL-1998; 98US-0091478P.
PR 02-JUL-1998; 98US-0091486P.
PR 02-JUL-1998; 98US-0091626P.
PR 02-JUL-1998; 98US-0091628P.
PR 02-JUL-1998; 98US-0091632P.
PR 24-JUL-1998; 98US-0094006P.
PR 04-AUG-1998; 98US-0095282P.
PR 10-AUG-1998; 98US-0095998P.
PR 10-AUG-1998; 98US-0096012P.
PR 17-AUG-1998; 98US-0096757P.
PR 17-AUG-1998; 98US-0096766P.
PR 17-AUG-1998; 98US-0096867P.
PR 17-AUG-1998; 98US-0096891P.
PR 17-AUG-1998; 98US-0096897P.
PR 18-AUG-1998; 98US-0096949P.
PR 18-AUG-1998; 98US-0096959P.
PR 18-AUG-1998; 98US-0097022P.
PR 26-AUG-1998; 98US-0097952P.
PR 26-AUG-1998; 98US-0097954P.
PR 26-AUG-1998; 98US-0097955P.
PR 26-AUG-1998; 98US-0097971P.
PR 26-AUG-1998; 98US-0097974P.
PR 26-AUG-1998; 98US-0098014P.
PR 01-SEP-1998; 98US-0098716P.
PR 01-SEP-1998; 98US-0098723P.
PR 02-SEP-1998; 98US-0098803P.
PR 02-SEP-1998; 98US-0098821P.
PR 02-SEP-1998; 98US-0098843P.
PR 03-SEP-1998; 98US-0099602P.
PR 10-SEP-1998; 98US-0099741P.
PR 10-SEP-1998; 98US-0099754P.
PR 10-SEP-1998; 98US-0099763P.
PR 10-SEP-1998; 98US-0099812P.
PR 15-SEP-1998; 98US-0100388P.
PR 16-SEP-1998; 98US-0100662P.
PR 16-SEP-1998; 98US-0100664P.
PR 16-SEP-1998; 98US-0101751P.
PR 16-SEP-1998; 98WO-US019330.
PR 17-SEP-1998; 98US-0100683P.
PR 17-SEP-1998; 98US-0100684P.
PR 17-SEP-1998; 98US-0100919P.
PR 17-SEP-1998; 98US-0100930P.
PR 18-SEP-1998; 98US-0100849P.
PR 18-SEP-1998; 98US-0101014P.
PR 18-SEP-1998; 98US-0101068P.
PR 23-SEP-1998; 98US-0101471P.
PR 23-SEP-1998; 98US-0101472P.
PR 23-SEP-1998; 98US-0101475P.
PR 23-SEP-1998; 98US-0101477P.
PR 24-SEP-1998; 98US-0101738P.
PR 24-SEP-1998; 98US-0101739P.
PR 24-SEP-1998; 98US-0101743P.
PR 24-SEP-1998; 98US-0101922P.
PR 25-SEP-1998; 98US-0101786P.
PR 25-SEP-1998; 98US-0102207P.


```
PR 29-SEP-1998; 98US-0102240P.
PR 29-SEP-1998; 98US-0102330P.
PR 29-SEP-1998; 98US-0102331P.
PR 30-SEP-1998; 98US-0102487P.
PR 30-SEP-1998; 98US-0102570P.
PR 30-SEP-1998; 98US-0102571P.
PR 01-OCT-1998; 98US-0102684P.
PR 01-OCT-1998; 98US-0102687P.
PR 02-OCT-1998; 98US-0102965P.
PR 06-OCT-1998; 98US-0103258P.
PR 06-OCT-1998; 98US-0103449P.
PR 07-OCT-1998; 98US-00168978.
PR 07-OCT-1998; 98US-0103395P.

Query Match 35.5%; Score 150; DB 6; Length 440;
Best Local Similarity 100.0%; Pred. No. 7.7e-135;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 16 SAALIPGTGQNLFTKDVTVIEGEVATISQVKNKSDSVIQLLNPNRQTIYFRDRPLK 75.
Db 32 SAALIPGTGQNLFTKDVTVIEGEVATISQVKNKSDSVIQLLNPNRQTIYFRDRPLK 91
Qy 76 DSRFQLNFSSSELKSLTNVSISSDEGRYFCQLYTDPQESYTTITVLVPPRNLMDIQK 135
Db 92 DSRFQLNFSSSELKSLTNVSISSDEGRYFCQLYTDPQESYTTITVLVPPRNLMDIQK 151
Qy 136 DTAVEGEIEVNCVTAMASKPATIRWPKGN 165
Db 152 DTAVEGEIEVNCVTAMASKPATIRWPKGN 181

RESULT 21
ABU89843
ID ABU89843 standard; protein; 440 AA.
XX AC ABU89843;
XX DT 11-AUG-2003 (first entry)
XX DE Novel human secreted and transmembrane protein PRO355.
XX KW Human; gene therapy; tissue typing; tumour; chondrocyte proliferation;
XX KW chondrocyte differentiation; tumour necrosis factor-alpha release;
XX KW affinity purification.
XX OS Homo sapiens.
XX PN US2003036147-A1.
XX XX
PD 20-FEB-2003.
XX XX
XX 02-JUL-2002; 2002US-00187741.
XX XX
PR 18-SEP-1997; 97US-0059263P.
PR 18-SEP-1997; 97US-0059266P.
PR 17-OCT-1997; 97US-0062250P.
PR 21-OCT-1997; 97US-0063486P.
PR 24-OCT-1997; 97US-0063120P.
PR 24-OCT-1997; 97US-0063121P.
PR 28-OCT-1997; 97US-0063540P.
PR 28-OCT-1997; 97US-0063541P.
PR 28-OCT-1997; 97US-0063544P.
PR 28-OCT-1997; 97US-0063564P.
PR 29-OCT-1997; 97US-0063734P.
PR 31-OCT-1997; 97US-0063870P.
PR 31-OCT-1997; 97US-0064103P.
PR 13-NOV-1997; 97US-0065311P.
PR 21-NOV-1997; 97US-0066120P.
PR 24-NOV-1997; 97US-0066466P.
PR 24-NOV-1997; 97US-0066772P.
PR 11-DEC-1997; 97US-0069335P.
PR 12-DEC-1997; 97US-0069425P.
PR 17-DEC-1997; 97US-0069870P.

97US-0068017P.
98US-0077450P.
98US-0077632P.
98US-0077649P.
98US-0078886P.
98US-0078939P.
98US-0079664P.
98US-0079786P.
98US-0080107P.
98US-0080194P.
98US-0080327P.
98US-0080333P.
98US-0081049P.
98US-0081070P.
98US-0081195P.
98US-0081838P.
98US-0082568P.
98US-0082569P.
98US-0082704P.
98US-0082797P.
98US-0083322P.
98US-0083495P.
98US-0083496P.
98US-0083499P.
98US-0083559P.
98US-0084366P.
98US-0084414P.
98US-0084639P.
98US-0084640P.
98US-0084643P.
98US-0085579P.
98US-0085580P.
98US-0085582P.
98US-0085700P.
98US-0086023P.
98US-0086392P.
98US-0086486P.
98US-0087098P.
98US-0087208P.
98US-0087609P.
98US-0087759P.
98US-0087827P.
98US-0088025P.
98US-0088028P.
98US-0088029P.
98US-0088033P.
98US-0088167P.
98US-0088202P.
98US-0088212P.
98US-0088217P.
98US-0088555P.
98US-0088722P.
98US-0088738P.
98US-0088740P.
98US-0088811P.
98US-0088824P.
98US-0088825P.
98US-0088826P.
98US-0088861P.
98US-0088863P.
98US-0088876P.
98US-0089090P.
98US-0089105P.
98US-0089512P.
98US-0089514P.
98US-0089538P.
98US-0089598P.
98US-0089653P.
98US-0089908P.
98US-0089952P.
98US-0090246P.
98US-0090252P.
```

```
PR 22-JUN-1998; 98US-0090254P.
PR 24-JUN-1998; 98US-0090429P.
PR 24-JUN-1998; 98US-0090435P.
PR 24-JUN-1998; 98US-0090444P.
PR 24-JUN-1998; 98US-0090461P.
PR 24-JUN-1998; 98US-0090535P.
PR 24-JUN-1998; 98US-0090540P.
PR 24-JUN-1998; 98US-0090540P.
PR 25-JUN-1998; 98US-0090676P.
PR 25-JUN-1998; 98US-0090678P.
PR 25-JUN-1998; 98US-0090688P.
PR 25-JUN-1998; 98US-0090890P.
PR 25-JUN-1998; 98US-0090894P.
PR 25-JUN-1998; 98US-0090895P.
PR 25-JUN-1998; 98US-0090896P.
PR 26-JUN-1998; 98US-00105413.
PR 26-JUN-1998; 98US-0090862P.
PR 26-JUN-1998; 98US-0090863P.
PR 26-JUN-1998; 98US-0091010P.
PR 01-JUL-1998; 98US-0091359P.
PR 01-JUL-1998; 98US-0091544P.
PR 02-JUL-1998; 98US-0091478P.
PR 02-JUL-1998; 98US-0091486P.
PR 02-JUL-1998; 98US-0091626P.
PR 02-JUL-1998; 98US-0091628P.
PR 02-JUL-1998; 98US-0091632P.
PR 24-JUL-1998; 98US-0094006P.
PR 04-AUG-1998; 98US-0095282P.
PR 10-AUG-1998; 98US-0095398P.
PR 10-AUG-1998; 98US-0096012P.
PR 17-AUG-1998; 98US-0096757P.
PR 17-AUG-1998; 98US-0096766P.
PR 17-AUG-1998; 98US-0096867P.
PR 17-AUG-1998; 98US-0096891P.
PR 17-AUG-1998; 98US-0096897P.
PR 18-AUG-1998; 98US-0096949P.
PR 18-AUG-1998; 98US-0096959P.
PR 18-AUG-1998; 98US-0097022P.
PR 26-AUG-1998; 98US-0097952P.
PR 26-AUG-1998; 98US-0097954P.
PR 26-AUG-1998; 98US-0097955P.
PR 26-AUG-1998; 98US-0097971P.
PR 26-AUG-1998; 98US-0097974P.
PR 26-AUG-1998; 98US-0098014P.
PR 01-SEP-1998; 98US-0098716P.
PR 01-SEP-1998; 98US-0098723P.
PR 02-SEP-1998; 98US-0098803P.
PR 02-SEP-1998; 98US-0098821P.
PR 02-SEP-1998; 98US-0098843P.
PR 02-SEP-1998; 98US-0099602P.
PR 10-SEP-1998; 98US-0099741P.
PR 10-SEP-1998; 98US-0099754P.
PR 10-SEP-1998; 98US-0099763P.
PR 10-SEP-1998; 98US-0099812P.
PR 15-SEP-1998; 98US-0100388P.
PR 16-SEP-1998; 98US-0100662P.
PR 16-SEP-1998; 98US-0100664P.
PR 16-SEP-1998; 98US-0101751P.
PR 16-SEP-1998; 98WO-US019330.
PR 17-SEP-1998; 98US-0100683P.
PR 17-SEP-1998; 98US-0100684P.
PR 17-SEP-1998; 98US-0100919P.
PR 17-SEP-1998; 98US-0100930P.
PR 18-SEP-1998; 98US-0100849P.
PR 18-SEP-1998; 98US-0101014P.
PR 18-SEP-1998; 98US-0101014P.
PR 23-SEP-1998; 98US-0101471P.
PR 23-SEP-1998; 98US-0101472P.
PR 23-SEP-1998; 98US-0101475P.
PR 23-SEP-1998; 98US-0101477P.
PR 24-SEP-1998; 98US-0101738P.
PR 24-SEP-1998; 98US-0101739P.
PR 24-SEP-1998; 98US-0101743P.
PR 24-SEP-1998; 98US-0101922P.

PR 25-SEP-1998; 98US-0101786P.
PR 29-SEP-1998; 98US-0102207P.
PR 29-SEP-1998; 98US-0102240P.
PR 29-SEP-1998; 98US-0102330P.
PR 29-SEP-1998; 98US-0102331P.
PR 30-SEP-1998; 98US-0102487P.
PR 30-SEP-1998; 98US-0102570P.
PR 30-SEP-1998; 98US-0102571P.
PR 01-OCT-1998; 98US-0102684P.
PR 01-OCT-1998; 98US-0102887P.
PR 02-OCT-1998; 98US-0102965P.
PR 06-OCT-1998; 98US-0103258P.
PR 06-OCT-1998; 98US-0103449P.
PR 07-OCT-1998; 98US-00168978.

Query Match 35.5%; Score 150; DB 6; Length 440;
Best Local Similarity 100.0%; Pred. No. 7.7e-135;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 16 SAAALPTGQQLFTKDVTVIEGEVATISCVNKSDDSVIQLLNPNROTIFYRDFRPLK 75
Db 32 SAAALPTGQQLFTKDVTVIEGEVATISCVNKSDDSVIQLLNPNROTIFYRDFRPLK 91
QY 76 DSRFQLLNFSSELKVSLSNVSISDEGRYFCQLYTDPPQESYTTITVLVPPRNLMDIOK 135
Db 92 DSRFQLLNFSSELKVSLSNVSISDEGRYFCQLYTDPPQESYTTITVLVPPRNLMDIOK 151
QY 136 DTAVEGEEIEVNCNTAMASKPATIRWFGN 165
Db 152 DTAVEGEEIEVNCNTAMASKPATIRWFGN 181

RESULT 22
ABR68092
ID ABR68092 standard; protein; 440 AA.
XX AC ABR68092;
XX XX
DT 11-AUG-2003 (first entry)
XX DE Human secreted polypeptide PRO355, SEQ ID NO:34.
XX XX
KW Human; PRO; secreted protein; transmembrane protein;
KW extracellular domain; tumour necrosis factor-alpha; TNF-alpha;
KW chondrocyte; proliferation; differentiation; cartilage disorder;
KW bone disorder; arthritis; sports injury; cancer; tumour; diagnosis;
KW adrenal tumour; lung; colon; breast; prostate; kidney; rectum; cervix;
KW liver; drug screening; transgenic animal; genetic analysis;
KW antiarthritic; vulnery; gene therapy.
XX OS Homo sapiens.
XX XX
PN US2003027264-A1.
XX XX
PD 06-FEB-2003.
XX XX
PF 18-JUN-2002; 2002US-00174579.
XX XX
PR 18-SEP-1997; 97US-0059263P.
PR 18-SEP-1997; 97US-0059266P.
PR 17-OCT-1997; 97US-0062250P.
PR 21-OCT-1997; 97US-0063486P.
PR 24-OCT-1997; 97US-0063120P.
PR 24-OCT-1997; 97US-0063121P.
PR 28-OCT-1997; 97US-0063540P.
PR 28-OCT-1997; 97US-0063541P.
PR 28-OCT-1997; 97US-0063544P.
PR 28-OCT-1997; 97US-0063564P.
PR 29-OCT-1997; 97US-0063734P.
PR 31-OCT-1997; 97US-0063870P.
PR 31-OCT-1997; 97US-0064103P.
PR 13-NOV-1997; 97US-0065311P.
PR 21-NOV-1997; 97US-0066120P.
```

PR 24-NOV-1997; 97US-0066466P.
PR 24-NOV-1997; 97US-0066772P.
PR 11-DEC-1997; 97US-0069335P.
PR 12-DEC-1997; 97US-0069425P.
PR 17-DEC-1997; 97US-0069870P.
PR 18-DEC-1997; 97US-0068017P.
PR 10-MAR-1998; 98US-0077450P.
PR 11-MAR-1998; 98US-0077632P.
PR 11-MAR-1998; 98US-0077649P.
PR 20-MAR-1998; 98US-0078886P.
PR 20-MAR-1998; 98US-0078939P.
PR 27-MAR-1998; 98US-0079664P.
PR 27-MAR-1998; 98US-0079786P.
PR 31-MAR-1998; 98US-0080107P.
PR 31-MAR-1998; 98US-0080194P.
PR 01-APR-1998; 98US-0080327P.
PR 01-APR-1998; 98US-0080333P.
PR 08-APR-1998; 98US-0081049P.
PR 08-APR-1998; 98US-0081070P.
PR 09-APR-1998; 98US-0081195P.
PR 15-APR-1998; 98US-0081838P.
PR 21-APR-1998; 98US-0082568P.
PR 21-APR-1998; 98US-0082569P.
PR 22-APR-1998; 98US-0082704P.
PR 22-APR-1998; 98US-0082797P.
PR 28-APR-1998; 98US-0083322P.
PR 29-APR-1998; 98US-0083495P.
PR 29-APR-1998; 98US-0083496P.
PR 29-APR-1998; 98US-0083499P.
PR 29-APR-1998; 98US-0083559P.
PR 05-MAY-1998; 98US-0084366P.
PR 06-MAY-1998; 98US-0084414P.
PR 07-MAY-1998; 98US-0084639P.
PR 07-MAY-1998; 98US-0084640P.
PR 15-MAY-1998; 98US-0084643P.
PR 15-MAY-1998; 98US-0085579P.
PR 15-MAY-1998; 98US-0085580P.
PR 15-MAY-1998; 98US-0085582P.
PR 15-MAY-1998; 98US-0085700P.
PR 18-MAY-1998; 98US-0086023P.
PR 22-MAY-1998; 98US-0086392P.
PR 22-MAY-1998; 98US-0086486P.
PR 28-MAY-1998; 98US-0087098P.
PR 28-MAY-1998; 98US-0087208P.
PR 02-JUN-1998; 98US-0087609P.
PR 02-JUN-1998; 98US-0087759P.
PR 03-JUN-1998; 98US-0087827P.
PR 04-JUN-1998; 98US-0088025P.
PR 04-JUN-1998; 98US-0088028P.
PR 04-JUN-1998; 98US-0088029P.
PR 04-JUN-1998; 98US-0088033P.
PR 04-JUN-1998; 98US-0088326P.
PR 05-JUN-1998; 98US-0088167P.
PR 05-JUN-1998; 98US-0088202P.
PR 05-JUN-1998; 98US-0088202P.
PR 05-JUN-1998; 98US-0088212P.
PR 05-JUN-1998; 98US-0088217P.
PR 09-JUN-1998; 98US-0088655P.
PR 10-JUN-1998; 98US-0088722P.
PR 10-JUN-1998; 98US-0088738P.
PR 10-JUN-1998; 98US-0088740P.
PR 10-JUN-1998; 98US-0088811P.
PR 10-JUN-1998; 98US-0088824P.
PR 10-JUN-1998; 98US-0088825P.
PR 10-JUN-1998; 98US-0088826P.
PR 10-JUN-1998; 98US-0088861P.
PR 11-JUN-1998; 98US-0088861P.
PR 11-JUN-1998; 98US-0088863P.
PR 11-JUN-1998; 98US-0088876P.
PR 12-JUN-1998; 98US-0089090P.
PR 12-JUN-1998; 98US-0089105P.
PR 16-JUN-1998; 98US-0089512P.
PR 16-JUN-1998; 98US-0089514P.
PR 17-JUN-1998; 98US-0089538P.
PR 17-JUN-1998; 98US-0089598P.

PR 17-JUN-1998; 98US-0089653P.
PR 18-JUN-1998; 98US-0089908P.
PR 19-JUN-1998; 98US-0089952P.
PR 22-JUN-1998; 98US-0090246P.
PR 22-JUN-1998; 98US-0090252P.
PR 22-JUN-1998; 98US-0090254P.
PR 24-JUN-1998; 98US-0090429P.
PR 24-JUN-1998; 98US-0090435P.
PR 24-JUN-1998; 98US-0090444P.
PR 24-JUN-1998; 98US-0090461P.
PR 24-JUN-1998; 98US-0090535P.
PR 24-JUN-1998; 98US-0090540P.
PR 25-JUN-1998; 98US-0090676P.
PR 25-JUN-1998; 98US-0090678P.
PR 25-JUN-1998; 98US-0090688P.
PR 25-JUN-1998; 98US-0090690P.
PR 25-JUN-1998; 98US-0090694P.
PR 25-JUN-1998; 98US-0090695P.
PR 25-JUN-1998; 98US-0090696P.
PR 26-JUN-1998; 98US-00105413.
PR 26-JUN-1998; 98US-0090862P.
PR 26-JUN-1998; 98US-0090863P.
PR 26-JUN-1998; 98US-0091010P.
PR 01-JUL-1998; 98US-0091359P.
PR 01-JUL-1998; 98US-0091544P.
PR 02-JUL-1998; 98US-0091478P.
PR 02-JUL-1998; 98US-0091486P.
PR 02-JUL-1998; 98US-0091626P.
PR 02-JUL-1998; 98US-0091628P.
PR 02-JUL-1998; 98US-0091632P.
PR 24-JUL-1998; 98US-0094006P.
PR 04-AUG-1998; 98US-0095282P.
PR 10-AUG-1998; 98US-0095998P.
PR 10-AUG-1998; 98US-0096012P.
PR 17-AUG-1998; 98US-0096757P.
PR 17-AUG-1998; 98US-0096766P.
PR 17-AUG-1998; 98US-0096867P.
PR 17-AUG-1998; 98US-0096891P.
PR 17-AUG-1998; 98US-0096897P.
PR 18-AUG-1998; 98US-0096949P.
PR 18-AUG-1998; 98US-0096959P.
PR 18-AUG-1998; 98US-0097022P.
PR 26-AUG-1998; 98US-0097952P.
PR 26-AUG-1998; 98US-0097954P.
PR 26-AUG-1998; 98US-0097955P.
PR 26-AUG-1998; 98US-0097971P.
PR 26-AUG-1998; 98US-0097974P.
PR 26-AUG-1998; 98US-0098014P.
PR 01-SEP-1998; 98US-0098716P.
PR 01-SEP-1998; 98US-0098723P.
PR 02-SEP-1998; 98US-0098803P.
PR 02-SEP-1998; 98US-0098821P.
PR 02-SEP-1998; 98US-0098843P.
PR 03-SEP-1998; 98US-0099602P.
PR 10-SEP-1998; 98US-0099741P.
PR 10-SEP-1998; 98US-0099754P.
PR 10-SEP-1998; 98US-0099763P.
PR 10-SEP-1998; 98US-0099812P.
PR 15-SEP-1998; 98US-0100388P.
PR 16-SEP-1998; 98US-0100662P.
PR 16-SEP-1998; 98US-0100664P.
PR 16-SEP-1998; 98US-0101751P.
PR 16-SEP-1998; 98WO-US019330.
PR 17-SEP-1998; 98US-0100683P.
PR 17-SEP-1998; 98US-0100684P.
PR 17-SEP-1998; 98US-0100919P.
PR 17-SEP-1998; 98US-0100930P.
PR 18-SEP-1998; 98US-0100849P.
PR 18-SEP-1998; 98US-0101014P.
PR 18-SEP-1998; 98US-0101068P.
PR 23-SEP-1998; 98US-0101471P.
PR 23-SEP-1998; 98US-0101472P.
PR 23-SEP-1998; 98US-0101475P.

```
PR 23-SEP-1998; 98US-0101477P.
PR 24-SEP-1998; 98US-0101738P.
PR 24-SEP-1998; 98US-0101739P.
PR 24-SEP-1998; 98US-0101743P.
PR 24-SEP-1998; 98US-0101922P.
PR 25-SEP-1998; 98US-0101786P.
PR 29-SEP-1998; 98US-0102207P.
PR 29-SEP-1998; 98US-0102240P.
PR 29-SEP-1998; 98US-0102330P.
PR 29-SEP-1998; 98US-0102331P.
PR 30-SEP-1998; 98US-0102487P.
PR 30-SEP-1998; 98US-0102570P.
PR 30-SEP-1998; 98US-0102571P.
PR 01-OCT-1998; 98US-0102684P.
PR 01-OCT-1998; 98US-0102687P.

Query Match 35.5%; Score 150; DB 6; Length 440;
Best Local Similarity 100.0%; Pred. No. 7.7e-135;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 16 SAAALPTGQQLFTKDVTVIEGEVATISQVKNKSDSDSVIQLNPNRQTIYFRDPRPLK 75
Db 32 SAAALPTGQQLFTKDVTVIEGEVATISQVKNKSDSDSVIQLNPNRQTIYFRDPRPLK 91

QY 76 DSRFQLNFFSSSELKVLNVSISDEGRYFCQLYTDPQESYTTITVLVPPRNLMIDIQK 135
Db 92 DSRFQLNFFSSSELKVLNVSISDEGRYFCQLYTDPQESYTTITVLVPPRNLMIDIQK 151

QY 136 DTAVEGEIEVNCNTASKPATIRWFKGN 165
Db 152 DTAVEGEIEVNCNTASKPATIRWFKGN 181

RESULT 23
ABU96145
ID ABU96145 standard; protein; 440 AA.
XX
AC ABU96145;
XX
DT 25-JUL-2003 (first entry)
XX
DE Novel human secreted and transmembrane protein PRO355.
XX
KW Human; secreted and transmembrane protein; PRO; transgenic animal;
KW knockout; chromosome identification; tissue typing; tumour;
KW chondrocyte proliferation; chondrocyte differentiation;
KW tumor necrosis factor-alpha release stimulator.
XX
OS Homo sapiens.
XX
PN US2003036144-A1.
XX
PD 20-FEB-2003.
XX
XX
PF 01-JUL-2002; 2002US-00187601.
XX
PR 18-SEP-1997; 97US-0059263P.
PR 18-SEP-1997; 97US-0059266P.
PR 17-OCT-1997; 97US-0062450P.
PR 24-OCT-1997; 97US-0063486P.
PR 24-OCT-1997; 97US-0063120P.
PR 28-OCT-1997; 97US-0063121P.
PR 28-OCT-1997; 97US-0063540P.
PR 28-OCT-1997; 97US-0063541P.
PR 28-OCT-1997; 97US-0063544P.
PR 28-OCT-1997; 97US-0063564P.
PR 29-OCT-1997; 97US-0063734P.
PR 31-OCT-1997; 97US-0063870P.
PR 31-OCT-1997; 97US-0064103P.
PR 13-NOV-1997; 97US-0065311P.
PR 21-NOV-1997; 97US-0066120P.
PR 24-NOV-1997; 97US-0066466P.
PR 24-NOV-1997; 97US-0066772P.

97US-0069335P.
97US-0069425P.
97US-0069870P.
97US-0068017P.
98US-0077450P.
98US-0077632P.
98US-0077649P.
98US-0078886P.
98US-0078939P.
98US-0079664P.
98US-0079786P.
98US-0080107P.
98US-0080194P.
98US-0080327P.
98US-0080333P.
98US-0081049P.
98US-0081070P.
98US-0081195P.
98US-0081838P.
98US-0082568P.
98US-0082569P.
98US-0082704P.
98US-0082797P.
98US-0083322P.
98US-0083495P.
98US-0083496P.
98US-0083499P.
98US-0083559P.
98US-0084366P.
98US-0084414P.
98US-0084639P.
98US-0084640P.
98US-0084643P.
98US-0085579P.
98US-0085580P.
98US-0085582P.
98US-0085700P.
98US-0086023P.
98US-0086392P.
98US-0086486P.
98US-0087098P.
98US-0087208P.
98US-0087609P.
98US-0087759P.
98US-0087827P.
98US-0088025P.
98US-0088028P.
98US-0088029P.
98US-0088033P.
98US-0088326P.
98US-0088167P.
98US-0088202P.
98US-0088212P.
98US-0088217P.
98US-0088655P.
98US-0088722P.
98US-0088738P.
98US-0088740P.
98US-0088611P.
98US-0088824P.
98US-0088825P.
98US-0088826P.
98US-0088861P.
98US-0088863P.
98US-0088876P.
98US-0089090P.
98US-0089105P.
98US-0089512P.
98US-0089514P.
98US-0089538P.
98US-0089598P.
98US-0089653P.
98US-0089908P.
```

PR 19-JUN-1998; 98US-0089952P.
PR 22-JUN-1998; 98US-0090246P.
PR 22-JUN-1998; 98US-0090252P.
PR 22-JUN-1998; 98US-0090254P.
PR 24-JUN-1998; 98US-0090429P.
PR 24-JUN-1998; 98US-0090435P.
PR 24-JUN-1998; 98US-0090444P.
PR 24-JUN-1998; 98US-0090461P.
PR 24-JUN-1998; 98US-0090335P.
PR 24-JUN-1998; 98US-0090540P.
PR 25-JUN-1998; 98US-0090676P.
PR 25-JUN-1998; 98US-0090678P.
PR 25-JUN-1998; 98US-0090688P.
PR 25-JUN-1998; 98US-0090690P.
PR 25-JUN-1998; 98US-0090694P.
PR 25-JUN-1998; 98US-0090695P.
PR 25-JUN-1998; 98US-0090696P.
PR 26-JUN-1998; 98US-00105413.
PR 26-JUN-1998; 98US-0090862P.
PR 26-JUN-1998; 98US-0090863P.
PR 26-JUN-1998; 98US-0091010P.
PR 01-JUL-1998; 98US-0091359P.
PR 01-JUL-1998; 98US-0091544P.
PR 02-JUL-1998; 98US-0091478P.
PR 02-JUL-1998; 98US-0091486P.
PR 02-JUL-1998; 98US-0091626P.
PR 02-JUL-1998; 98US-0091628P.
PR 02-JUL-1998; 98US-0091632P.
PR 04-AUG-1998; 98US-0094006P.
PR 04-AUG-1998; 98US-0095282P.
PR 10-AUG-1998; 98US-0095988P.
PR 10-AUG-1998; 98US-0096012P.
PR 17-AUG-1998; 98US-0096757P.
PR 17-AUG-1998; 98US-0096766P.
PR 17-AUG-1998; 98US-0096867P.
PR 17-AUG-1998; 98US-0096891P.
PR 17-AUG-1998; 98US-0096897P.
PR 18-AUG-1998; 98US-0096949P.
PR 18-AUG-1998; 98US-0096959P.
PR 18-AUG-1998; 98US-0097022P.
PR 26-AUG-1998; 98US-0097952P.
PR 26-AUG-1998; 98US-0097954P.
PR 26-AUG-1998; 98US-0097955P.
PR 26-AUG-1998; 98US-0097971P.
PR 26-AUG-1998; 98US-0097974P.
PR 26-AUG-1998; 98US-0098014P.
PR 01-SEP-1998; 98US-0098716P.
PR 01-SEP-1998; 98US-0098723P.
PR 02-SEP-1998; 98US-0098803P.
PR 02-SEP-1998; 98US-0098821P.
PR 02-SEP-1998; 98US-0098843P.
PR 09-SEP-1998; 98US-0099602P.
PR 10-SEP-1998; 98US-0099741P.
PR 10-SEP-1998; 98US-0099754P.
PR 10-SEP-1998; 98US-0099763P.
PR 10-SEP-1998; 98US-0099812P.
PR 15-SEP-1998; 98US-0100388P.
PR 15-SEP-1998; 98US-0100662P.
PR 16-SEP-1998; 98US-0100664P.
PR 16-SEP-1998; 98US-0101751P.
PR 16-SEP-1998; 98WO-US019330.
PR 17-SEP-1998; 98US-0100683P.
PR 17-SEP-1998; 98US-0100684P.
PR 17-SEP-1998; 98US-0100919P.
PR 17-SEP-1998; 98US-0100930P.
PR 18-SEP-1998; 98US-0100849P.
PR 18-SEP-1998; 98US-0101014P.
PR 18-SEP-1998; 98US-0101068P.
PR 23-SEP-1998; 98US-0101471P.
PR 23-SEP-1998; 98US-0101472P.
PR 23-SEP-1998; 98US-0101475P.
PR 23-SEP-1998; 98US-0101477P.
PR 24-SEP-1998; 98US-0101738P.

PR 24-SEP-1998; 98US-0101739P.
PR 24-SEP-1998; 98US-0101743P.
PR 24-SEP-1998; 98US-0101922P.
PR 25-SEP-1998; 98US-0101786P.
PR 25-SEP-1998; 98US-0102207P.
PR 29-SEP-1998; 98US-0102240P.
PR 29-SEP-1998; 98US-0102330P.
PR 29-SEP-1998; 98US-0102331P.
PR 30-SEP-1998; 98US-0102487P.
PR 30-SEP-1998; 98US-0102570P.
PR 30-SEP-1998; 98US-0102571P.
PR 01-OCT-1998; 98US-0102684P.
PR 01-OCT-1998; 98US-0102687P.
PR 02-OCT-1998; 98US-0102965P.
PR 06-OCT-1998; 98US-0103258P.
PR 06-OCT-1998; 98US-0103449P.

Qy 16 SAAALPTGQNLFTKDVTVIEGEVATISCQVKNKSDSVIQLLNPRTIYFRDFRPLK 75
|||
Db 32 SAAALPTGQNLFTKDVTVIEGEVATISCQVKNKSDSVIQLLNPRTIYFRDFRPLK 91
|||
Qy 76 DSRFOLLNFSSELKYSLTNVSISDEGRYFCOLYTDPPQESYTTITVLVPPRLMIDIQK 135
|||
Db 92 DSRFOLLNFSSELKYSLTNVSISDEGRYFCOLYTDPPQESYTTITVLVPPRLMIDIQK 151
|||
Qy 136 DTAVEGEIEVNCVTAMASKPATTIRWFKGN 165
|||
Db 152 DTAVEGEIEVNCVTAMASKPATTIRWFKGN 181

RESULT 24
ABU92576
ID ABU92576 standard; protein; 440 AA.
AC ABU92576;
XX
DT 18-JUL-2003 (first entry)
XX
DE Human secreted/transmembrane protein (PRO) #17.
XX
KW Human; secreted protein; transmembrane protein; PRO; tumour;
KW proliferation; differentiation; chondrocyte cell; TNF-alpha;
KW tumour necrosis factor-alpha; gene therapy.
XX
OS Homo sapiens.
XX
PN US2003036149-A1.
XX
PD 20-FEB-2003.
XX
PF 02-JUL-2002; 2002US-00187746.
XX
PR 18-SEP-1997; 97US-0059263P.
PR 18-SEP-1997; 97US-0059266P.
PR 17-OCT-1997; 97US-0062250P.
PR 21-OCT-1997; 97US-0063486P.
PR 24-OCT-1997; 97US-0063120P.
PR 24-OCT-1997; 97US-0063121P.
PR 24-OCT-1997; 97US-0063540P.
PR 28-OCT-1997; 97US-0063541P.
PR 28-OCT-1997; 97US-0063544P.
PR 28-OCT-1997; 97US-0063564P.
PR 29-OCT-1997; 97US-0063734P.
PR 31-OCT-1997; 97US-0063870P.
PR 31-OCT-1997; 97US-0064103P.
PR 13-NOV-1997; 97US-0065311P.
PR 21-NOV-1997; 97US-0066120P.
PR 24-NOV-1997; 97US-0066466P.
PR 24-NOV-1997; 97US-0066772P.

Query Match 35.5%; Score 150; DB 6; Length 440;

Best Local Similarity 100.0%; Pred. No. 7.7e-135;

Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

PR 11-DEC-1997; 97US-0069335P.
PR 12-DEC-1997; 97US-0069425P.
PR 17-DEC-1997; 97US-0069870P.
PR 18-DEC-1997; 97US-0068017P.
PR 10-MAR-1998; 98US-0077450P.
PR 11-MAR-1998; 98US-0077632P.
PR 11-MAR-1998; 98US-0077649P.
PR 20-MAR-1998; 98US-0078886P.
PR 20-MAR-1998; 98US-0078939P.
PR 27-MAR-1998; 98US-0079664P.
PR 27-MAR-1998; 98US-0079786P.
PR 31-MAR-1998; 98US-0080107P.
PR 31-MAR-1998; 98US-0080194P.
PR 01-APR-1998; 98US-0080327P.
PR 01-APR-1998; 98US-0080333P.
PR 08-APR-1998; 98US-0081049P.
PR 08-APR-1998; 98US-0081070P.
PR 09-APR-1998; 98US-0081195P.
PR 15-APR-1998; 98US-0081838P.
PR 21-APR-1998; 98US-0082568P.
PR 21-APR-1998; 98US-0082569P.
PR 22-APR-1998; 98US-0082704P.
PR 22-APR-1998; 98US-0082797P.
PR 28-APR-1998; 98US-0083322P.
PR 28-APR-1998; 98US-0083495P.
PR 29-APR-1998; 98US-0083496P.
PR 29-APR-1998; 98US-0083499P.
PR 29-APR-1998; 98US-0083559P.
PR 05-MAY-1998; 98US-0084366P.
PR 06-MAY-1998; 98US-0084414P.
PR 07-MAY-1998; 98US-0084639P.
PR 07-MAY-1998; 98US-0084640P.
PR 07-MAY-1998; 98US-0084643P.
PR 15-MAY-1998; 98US-0085579P.
PR 15-MAY-1998; 98US-0085580P.
PR 15-MAY-1998; 98US-0085582P.
PR 18-MAY-1998; 98US-0086023P.
PR 22-MAY-1998; 98US-0086392P.
PR 22-MAY-1998; 98US-0086486P.
PR 28-MAY-1998; 98US-0087098P.
PR 28-MAY-1998; 98US-0087208P.
PR 02-JUN-1998; 98US-0087609P.
PR 02-JUN-1998; 98US-0087759P.
PR 03-JUN-1998; 98US-0088025P.
PR 04-JUN-1998; 98US-0088028P.
PR 04-JUN-1998; 98US-0088029P.
PR 04-JUN-1998; 98US-0088033P.
PR 04-JUN-1998; 98US-0088326P.
PR 05-JUN-1998; 98US-0088167P.
PR 05-JUN-1998; 98US-0088202P.
PR 05-JUN-1998; 98US-0088212P.
PR 05-JUN-1998; 98US-0088217P.
PR 09-JUN-1998; 98US-0088655P.
PR 10-JUN-1998; 98US-0088722P.
PR 10-JUN-1998; 98US-0088738P.
PR 10-JUN-1998; 98US-0088740P.
PR 10-JUN-1998; 98US-0088811P.
PR 10-JUN-1998; 98US-0088824P.
PR 10-JUN-1998; 98US-0088825P.
PR 10-JUN-1998; 98US-0088826P.
PR 11-JUN-1998; 98US-0088861P.
PR 11-JUN-1998; 98US-0088863P.
PR 11-JUN-1998; 98US-0088876P.
PR 12-JUN-1998; 98US-0089090P.
PR 12-JUN-1998; 98US-0089105P.
PR 16-JUN-1998; 98US-0089512P.
PR 16-JUN-1998; 98US-0089514P.
PR 17-JUN-1998; 98US-0089558P.
PR 17-JUN-1998; 98US-0089598P.
PR 18-JUN-1998; 98US-0089653P.
PR 18-JUN-1998; 98US-0089908P.
PR 19-JUN-1998; 98US-0089952P.
PR 22-JUN-1998; 98US-0090246P.
PR 22-JUN-1998; 98US-0090252P.
PR 22-JUN-1998; 98US-0090254P.
PR 24-JUN-1998; 98US-0090429P.
PR 24-JUN-1998; 98US-0090435P.
PR 24-JUN-1998; 98US-0090444P.
PR 24-JUN-1998; 98US-0090461P.
PR 24-JUN-1998; 98US-0090515P.
PR 24-JUN-1998; 98US-0090540P.
PR 25-JUN-1998; 98US-0090676P.
PR 25-JUN-1998; 98US-0090678P.
PR 25-JUN-1998; 98US-0090688P.
PR 25-JUN-1998; 98US-0090690P.
PR 25-JUN-1998; 98US-0090694P.
PR 25-JUN-1998; 98US-0090695P.
PR 25-JUN-1998; 98US-0090896P.
PR 26-JUN-1998; 98US-00105413.
PR 26-JUN-1998; 98US-0090862P.
PR 26-JUN-1998; 98US-0090863P.
PR 01-JUL-1998; 98US-0091010P.
PR 01-JUL-1998; 98US-0091359P.
PR 01-JUL-1998; 98US-0091544P.
PR 02-JUL-1998; 98US-0091478P.
PR 02-JUL-1998; 98US-0091486P.
PR 02-JUL-1998; 98US-0091626P.
PR 02-JUL-1998; 98US-0091628P.
PR 02-JUL-1998; 98US-0091632P.
PR 24-JUL-1998; 98US-0094006P.
PR 04-AUG-1998; 98US-0095282P.
PR 10-AUG-1998; 98US-0095988P.
PR 17-AUG-1998; 98US-0096012P.
PR 17-AUG-1998; 98US-0096757P.
PR 17-AUG-1998; 98US-0096766P.
PR 17-AUG-1998; 98US-0096867P.
PR 17-AUG-1998; 98US-0096891P.
PR 17-AUG-1998; 98US-0096897P.
PR 18-AUG-1998; 98US-0096949P.
PR 18-AUG-1998; 98US-0096959P.
PR 18-AUG-1998; 98US-0097022P.
PR 26-AUG-1998; 98US-0097952P.
PR 26-AUG-1998; 98US-0097954P.
PR 26-AUG-1998; 98US-0097955P.
PR 26-AUG-1998; 98US-0097971P.
PR 26-AUG-1998; 98US-0097974P.
PR 26-AUG-1998; 98US-0098014P.
PR 01-SEP-1998; 98US-0098716P.
PR 01-SEP-1998; 98US-0098723P.
PR 02-SEP-1998; 98US-0098803P.
PR 02-SEP-1998; 98US-0098821P.
PR 02-SEP-1998; 98US-0098843P.
PR 09-SEP-1998; 98US-0099602P.
PR 10-SEP-1998; 98US-0099741P.
PR 10-SEP-1998; 98US-0099754P.
PR 10-SEP-1998; 98US-0099763P.
PR 10-SEP-1998; 98US-0099812P.
PR 15-SEP-1998; 98US-0100388P.
PR 16-SEP-1998; 98US-0100662P.
PR 16-SEP-1998; 98US-0100664P.
PR 16-SEP-1998; 98US-0101751P.
PR 16-SEP-1998; 98WO-06019330.
PR 17-SEP-1998; 98US-0100683P.
PR 17-SEP-1998; 98US-0100684P.
PR 17-SEP-1998; 98US-0100919P.
PR 17-SEP-1998; 98US-0100930P.
PR 18-SEP-1998; 98US-0100849P.
PR 18-SEP-1998; 98US-0101014P.
PR 18-SEP-1998; 98US-0101068P.
PR 23-SEP-1998; 98US-0101471P.
PR 23-SEP-1998; 98US-0101472P.
PR 23-SEP-1998; 98US-0101475P.
PR 23-SEP-1998; 98US-0101477P.
PR 24-SEP-1998; 98US-0101738P.

```
PR 24-SEP-1998; 98US-0101739P.
PR 24-SEP-1998; 98US-0101743P.
PR 24-SEP-1998; 98US-0101922P.
PR 25-SEP-1998; 98US-0101786P.
PR 29-SEP-1998; 98US-0102207P.
PR 29-SEP-1998; 98US-0102240P.
PR 29-SEP-1998; 98US-0102330P.
PR 30-SEP-1998; 98US-0102331P.
PR 30-SEP-1998; 98US-0102487P.
PR 30-SEP-1998; 98US-0102570P.
PR 30-SEP-1998; 98US-0102571P.
PR 01-OCT-1998; 98US-0102684P.
PR 01-OCT-1998; 98US-0102687P.
PR 02-OCT-1998; 98US-0102965P.
PR 06-OCT-1998; 98US-0103258P.
PR 08-OCT-1998; 98US-0103449P.
PR 07-OCT-1998; 98US-0106897P.

Query Match 35.5%; Score 150; DB 6; Length 440;
Best Local Similarity 100.0%; Pred. No. 7,7e-135;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 16 SAAALPTGQNLFTKDVTVIEGEVATISCQVKNKSDSVIQLLNPRTIYFRDPRPLK 75
Db 32 SAAALPTGQNLFTKDVTVIEGEVATISCQVKNKSDSVIQLLNPRTIYFRDPRPLK 91

Qy 76 DSRFQLNFSSSELKSLTNVTSIDSGRYFCQLYTDPQESYTTITVLVPPRLMIDIQK 135
Db 92 DSRFQLNFSSSELKSLTNVTSIDSGRYFCQLYTDPQESYTTITVLVPPRLMIDIQK 151

Qy 136 DTAVEGEIEVNCVTAMASKPATIRWFKGN 165
Db 152 DTAVEGEIEVNCVTAMASKPATIRWFKGN 181

RESULT 25
ABO08653
ID ABO08653 standard; protein; 440 AA.
XX AC ABO08653;
XX DT 17-AUG-2003 (first entry)
XX DE Human secreted/transmembrane protein (PRO) #17.
XX KW Human; secreted and transmembrane protein; PRO; TNF-alpha;
KW tumour necrosis factor alpha; chondrocyte cell; tumour; gene therapy;
KW tissue typing; adrenal tumour; lung tumour; colon tumour; breast tumour;
KW prostate tumour; rectal tumour; cervical tumour; liver tumour.
XX OS Homo sapiens.
XX US2003044923-A1.
XX PD 06-MAR-2003.
XX PF 24-JUN-2002; 2002US-00179522.
XX PR 18-SEP-1997; 97US-0059263P.
XX PR 18-SEP-1997; 97US-0059266P.
XX PR 17-OCT-1997; 97US-0062250P.
XX PR 21-OCT-1997; 97US-0063486P.
XX PR 24-OCT-1997; 97US-0063120P.
XX PR 24-OCT-1997; 97US-0063121P.
XX PR 28-OCT-1997; 97US-0063540P.
XX PR 28-OCT-1997; 97US-0063541P.
XX PR 28-OCT-1997; 97US-0063544P.
XX PR 28-OCT-1997; 97US-0063564P.
XX PR 29-OCT-1997; 97US-0063734P.
XX PR 31-OCT-1997; 97US-0063870P.
XX PR 31-OCT-1997; 97US-0064103P.
XX PR 13-NOV-1997; 97US-0065311P.
XX PR 13-NOV-1997; 97US-0066120P.

PR 24-NOV-1997; 97US-0066466P.
PR 24-NOV-1997; 97US-0066772P.
PR 11-DEC-1997; 97US-0069335P.
PR 12-DEC-1997; 97US-0069425P.
PR 17-DEC-1997; 97US-0069870P.
PR 18-DEC-1997; 97US-0068017P.
PR 10-MAR-1998; 98US-0077450P.
PR 11-MAR-1998; 98US-0077632P.
PR 11-MAR-1998; 98US-0077649P.
PR 20-MAR-1998; 98US-0078886P.
PR 20-MAR-1998; 98US-0078939P.
PR 27-MAR-1998; 98US-0079664P.
PR 27-MAR-1998; 98US-0079786P.
PR 31-MAR-1998; 98US-0080107P.
PR 31-MAR-1998; 98US-0080194P.
PR 01-APR-1998; 98US-0080327P.
PR 01-APR-1998; 98US-0080333P.
PR 08-APR-1998; 98US-0081049P.
PR 08-APR-1998; 98US-0081070P.
PR 05-APR-1998; 98US-0081195P.
PR 15-APR-1998; 98US-0081838P.
PR 21-APR-1998; 98US-0082568P.
PR 21-APR-1998; 98US-0082569P.
PR 22-APR-1998; 98US-0082704P.
PR 22-APR-1998; 98US-0082797P.
PR 28-APR-1998; 98US-0083322P.
PR 28-APR-1998; 98US-0083495P.
PR 29-APR-1998; 98US-0083496P.
PR 29-APR-1998; 98US-0083499P.
PR 29-APR-1998; 98US-0083559P.
PR 05-MAY-1998; 98US-0084366P.
PR 06-MAY-1998; 98US-0084414P.
PR 07-MAY-1998; 98US-0084639P.
PR 07-MAY-1998; 98US-0084640P.
PR 07-MAY-1998; 98US-0084643P.
PR 15-MAY-1998; 98US-0085579P.
PR 15-MAY-1998; 98US-0085580P.
PR 15-MAY-1998; 98US-0085582P.
PR 15-MAY-1998; 98US-0085700P.
PR 18-MAY-1998; 98US-0086023P.
PR 22-MAY-1998; 98US-0086392P.
PR 22-MAY-1998; 98US-0086486P.
PR 28-MAY-1998; 98US-0087098P.
PR 28-MAY-1998; 98US-0087208P.
PR 02-JUN-1998; 98US-0087609P.
PR 02-JUN-1998; 98US-0087759P.
PR 03-JUN-1998; 98US-0087827P.
PR 04-JUN-1998; 98US-0088025P.
PR 04-JUN-1998; 98US-0088028P.
PR 04-JUN-1998; 98US-0088029P.
PR 04-JUN-1998; 98US-0088033P.
PR 04-JUN-1998; 98US-0088326P.
PR 05-JUN-1998; 98US-0088167P.
PR 05-JUN-1998; 98US-0088202P.
PR 05-JUN-1998; 98US-0088212P.
PR 05-JUN-1998; 98US-0088217P.
PR 09-JUN-1998; 98US-0088655P.
PR 10-JUN-1998; 98US-0088722P.
PR 10-JUN-1998; 98US-0088738P.
PR 10-JUN-1998; 98US-0088740P.
PR 10-JUN-1998; 98US-0088811P.
PR 10-JUN-1998; 98US-0088824P.
PR 10-JUN-1998; 98US-0088825P.
PR 10-JUN-1998; 98US-0088826P.
PR 11-JUN-1998; 98US-0088861P.
PR 11-JUN-1998; 98US-0088863P.
PR 11-JUN-1998; 98US-0088876P.
PR 12-JUN-1998; 98US-0089090P.
PR 12-JUN-1998; 98US-0089105P.
PR 16-JUN-1998; 98US-0089512P.
PR 16-JUN-1998; 98US-0089514P.
PR 17-JUN-1998; 98US-0089538P.
PR 17-JUN-1998; 98US-0089598P.
```

```
PR 17-JUN-1998; 98US-0089653P.
PR 18-JUN-1998; 98US-0089908P.
PR 19-JUN-1998; 98US-0089952P.
PR 22-JUN-1998; 98US-0090246P.
PR 22-JUN-1998; 98US-0090252P.
PR 22-JUN-1998; 98US-0090254P.
PR 24-JUN-1998; 98US-0090429P.
PR 24-JUN-1998; 98US-0090435P.
PR 24-JUN-1998; 98US-0090461P.
PR 24-JUN-1998; 98US-0090535P.
PR 24-JUN-1998; 98US-0090540P.
PR 25-JUN-1998; 98US-0090676P.
PR 25-JUN-1998; 98US-0090678P.
PR 25-JUN-1998; 98US-0090688P.
PR 25-JUN-1998; 98US-0090690P.
PR 25-JUN-1998; 98US-0090694P.
PR 25-JUN-1998; 98US-0090695P.
PR 25-JUN-1998; 98US-0090696P.
PR 26-JUN-1998; 98US-00105413.
PR 26-JUN-1998; 98US-0090862P.
PR 26-JUN-1998; 98US-0090863P.
PR 26-JUN-1998; 98US-0091010P.
PR 01-JUL-1998; 98US-0091359P.
PR 01-JUL-1998; 98US-0091544P.
PR 02-JUL-1998; 98US-0091478P.
PR 02-JUL-1998; 98US-0091486P.
PR 02-JUL-1998; 98US-0091626P.
PR 02-JUL-1998; 98US-0091628P.
PR 02-JUL-1998; 98US-0091632P.
PR 04-JUL-1998; 98US-0094006P.
PR 04-AUG-1998; 98US-0095282P.
PR 10-AUG-1998; 98US-0095998P.
PR 10-AUG-1998; 98US-0096012P.
PR 17-AUG-1998; 98US-0096757P.
PR 17-AUG-1998; 98US-0096766P.
PR 17-AUG-1998; 98US-0096867P.
PR 17-AUG-1998; 98US-0096891P.
PR 17-AUG-1998; 98US-0096897P.
PR 18-AUG-1998; 98US-0096949P.
PR 18-AUG-1998; 98US-0096959P.
PR 18-AUG-1998; 98US-0097022P.
PR 26-AUG-1998; 98US-0097952P.
PR 26-AUG-1998; 98US-0097954P.
PR 26-AUG-1998; 98US-0097955P.
PR 26-AUG-1998; 98US-0097971P.
PR 26-AUG-1998; 98US-0097974P.
PR 26-AUG-1998; 98US-0098014P.
PR 01-SEP-1998; 98US-0098716P.
PR 01-SEP-1998; 98US-0098723P.
PR 02-SEP-1998; 98US-0098803P.
PR 02-SEP-1998; 98US-0098821P.
PR 02-SEP-1998; 98US-0098843P.
PR 09-SEP-1998; 98US-0099602P.
PR 10-SEP-1998; 98US-0099741P.
PR 10-SEP-1998; 98US-0099754P.
PR 10-SEP-1998; 98US-0099763P.
PR 10-SEP-1998; 98US-0099812P.
PR 15-SEP-1998; 98US-0100388P.
PR 16-SEP-1998; 98US-0100662P.
PR 16-SEP-1998; 98US-0100664P.
PR 16-SEP-1998; 98US-0101751P.
PR 16-SEP-1998; 98MO-US019130.
PR 17-SEP-1998; 98US-0100683P.
PR 17-SEP-1998; 98US-0100884P.
PR 17-SEP-1998; 98US-0100919P.
PR 17-SEP-1998; 98US-0100930P.
PR 18-SEP-1998; 98US-0100849P.
PR 18-SEP-1998; 98US-0101014P.
PR 18-SEP-1998; 98US-0101068P.
PR 23-SEP-1998; 98US-0101471P.
PR 23-SEP-1998; 98US-0101472P.
PR 23-SEP-1998; 98US-0101475P.

PR 23-SEP-1998; 98US-0101477P.
PR 24-SEP-1998; 98US-0101738P.
PR 24-SEP-1998; 98US-0101739P.
PR 24-SEP-1998; 98US-0101743P.
PR 24-SEP-1998; 98US-0101922P.
PR 25-SEP-1998; 98US-0101786P.
PR 29-SEP-1998; 98US-0102207P.
PR 29-SEP-1998; 98US-0102240P.
PR 29-SEP-1998; 98US-0102330P.
PR 29-SEP-1998; 98US-0102331P.
PR 30-SEP-1998; 98US-0102487P.
PR 30-SEP-1998; 98US-0102570P.
PR 30-SEP-1998; 98US-0102571P.
PR 01-OCT-1998; 98US-0102684P.
PR 01-OCT-1998; 98US-0102687P.
PR 02-OCT-1998; 98US-0102965P.
PR 06-OCT-1998; 98US-0103258P.
PR 06-OCT-1998; 98US-0103449P.

Query Match 35.5%; Score 150; DB 6; Length 440;
Best Local Similarity 100.0%; Pred. No. 7,7e-135;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 16 SAAALPTGQNLFTKQVTVIEGEVATISQVKNKSDSVIQLLNPNROTIIYPRDRPLK 75
Db 32 SAAALPTGQNLFTKQVTVIEGEVATISQVKNKSDSVIQLLNPNROTIIYPRDRPLK 91
QY 76 DSRFOLLNFSSSELKVSILNVSISDSGRYFCOLYTDPPQESYTTITVLVPPRNLMIDIOK 135
Db 92 DSRFOLLNFSSSELKVSILNVSISDSGRYFCOLYTDPPQESYTTITVLVPPRNLMIDIOK 151
QY 136 DTAVEGEEIEVNCTAMASKPATIRWFKGN 165
Db 152 DTAVEGEEIEVNCTAMASKPATIRWFKGN 181

RESULT 26
ABO02705
ID ABO02705 standard; protein; 440 AA.
AC ABO02705;
XX
XX 09-AUG-2003 (first entry)
XX Human secreted/transmembrane protein (PRO) #17.
DE Human; secreted and transmembrane protein; PRO; TNF-alpha;
KW tumour necrosis factor alpha; chondrocyte cell; tumour; gene therapy;
KW tissue typing; adrenal tumour; lung tumour; colon tumour; breast tumour;
KW prostate tumour; rectal tumour; cervical tumour; liver tumour.
XX Homo sapiens.
XX
XX US2003040062-A1.
PN
XX
XX 27-FEB-2003.
XX
XX 25-JUN-2002; 2002US-00180545.
XX
PR 18-SEP-1997; 97US-0059263P.
PR 18-SEP-1997; 97US-0059266P.
PR 17-OCT-1997; 97US-0062250P.
PR 21-OCT-1997; 97US-0063486P.
PR 24-OCT-1997; 97US-0063120P.
PR 24-OCT-1997; 97US-0063121P.
PR 28-OCT-1997; 97US-0063540P.
PR 28-OCT-1997; 97US-0063541P.
PR 28-OCT-1997; 97US-0063544P.
PR 28-OCT-1997; 97US-0063564P.
PR 29-OCT-1997; 97US-0063734P.
PR 31-OCT-1997; 97US-0063870P.
PR 31-OCT-1997; 97US-0064103P.
PR 13-NOV-1997; 97US-0065311P.
```


PR 21-NOV-1997; 97US-0066120P.
PR 24-NOV-1997; 97US-0066456P.
PR 24-NOV-1997; 97US-0066772P.
PR 11-DEC-1997; 97US-0069335P.
PR 12-DEC-1997; 97US-0069425P.
PR 17-DEC-1997; 97US-0069870P.
PR 18-DEC-1997; 97US-0068017P.
PR 10-MAR-1998; 98US-0077450P.
PR 11-MAR-1998; 98US-0077632P.
PR 11-MAR-1998; 98US-0077649P.
PR 20-MAR-1998; 98US-0078886P.
PR 20-MAR-1998; 98US-0078939P.
PR 27-MAR-1998; 98US-0079664P.
PR 27-MAR-1998; 98US-0079786P.
PR 31-MAR-1998; 98US-0080107P.
PR 31-MAR-1998; 98US-0080194P.
PR 01-APR-1998; 98US-0080327P.
PR 01-APR-1998; 98US-0080333P.
PR 08-APR-1998; 98US-0081049P.
PR 08-APR-1998; 98US-0081070P.
PR 09-APR-1998; 98US-0081195P.
PR 15-APR-1998; 98US-0081838P.
PR 21-APR-1998; 98US-0082568P.
PR 21-APR-1998; 98US-0082569P.
PR 22-APR-1998; 98US-0082704P.
PR 22-APR-1998; 98US-0082737P.
PR 28-APR-1998; 98US-0083322P.
PR 29-APR-1998; 98US-0083495P.
PR 29-APR-1998; 98US-0083496P.
PR 29-APR-1998; 98US-0083499P.
PR 29-APR-1998; 98US-0083559P.
PR 05-MAY-1998; 98US-0084366P.
PR 06-MAY-1998; 98US-0084414P.
PR 07-MAY-1998; 98US-0084639P.
PR 07-MAY-1998; 98US-0084643P.
PR 15-MAY-1998; 98US-0085579P.
PR 15-MAY-1998; 98US-0085580P.
PR 15-MAY-1998; 98US-0085582P.
PR 15-MAY-1998; 98US-0085700P.
PR 18-MAY-1998; 98US-0086023P.
PR 22-MAY-1998; 98US-0086392P.
PR 22-MAY-1998; 98US-0086486P.
PR 28-MAY-1998; 98US-0087098P.
PR 28-MAY-1998; 98US-0087208P.
PR 02-JUN-1998; 98US-0087609P.
PR 02-JUN-1998; 98US-0087759P.
PR 03-JUN-1998; 98US-0087827P.
PR 04-JUN-1998; 98US-0088025P.
PR 04-JUN-1998; 98US-0088028P.
PR 04-JUN-1998; 98US-0088029P.
PR 04-JUN-1998; 98US-0088033P.
PR 04-JUN-1998; 98US-0088326P.
PR 05-JUN-1998; 98US-0088167P.
PR 05-JUN-1998; 98US-0088202P.
PR 05-JUN-1998; 98US-0088212P.
PR 05-JUN-1998; 98US-0088217P.
PR 09-JUN-1998; 98US-0088655P.
PR 10-JUN-1998; 98US-0088722P.
PR 10-JUN-1998; 98US-0088738P.
PR 10-JUN-1998; 98US-0088740P.
PR 10-JUN-1998; 98US-0088811P.
PR 10-JUN-1998; 98US-0088824P.
PR 10-JUN-1998; 98US-0088825P.
PR 10-JUN-1998; 98US-0088826P.
PR 11-JUN-1998; 98US-0088861P.
PR 11-JUN-1998; 98US-0088863P.
PR 11-JUN-1998; 98US-0088876P.
PR 12-JUN-1998; 98US-0089090P.
PR 12-JUN-1998; 98US-0089105P.
PR 16-JUN-1998; 98US-0089512P.
PR 16-JUN-1998; 98US-0089514P.
PR 17-JUN-1998; 98US-0089538P.
PR 17-JUN-1998; 98US-0089598P.
PR 17-JUN-1998; 98US-0089533P.
PR 18-JUN-1998; 98US-0089908P.
PR 19-JUN-1998; 98US-0089952P.
PR 22-JUN-1998; 98US-0090246P.
PR 22-JUN-1998; 98US-0090252P.
PR 22-JUN-1998; 98US-0090254P.
PR 24-JUN-1998; 98US-0090429P.
PR 24-JUN-1998; 98US-0090435P.
PR 24-JUN-1998; 98US-0090444P.
PR 24-JUN-1998; 98US-0090461P.
PR 24-JUN-1998; 98US-0090535P.
PR 24-JUN-1998; 98US-0090540P.
PR 25-JUN-1998; 98US-0090676P.
PR 25-JUN-1998; 98US-0090678P.
PR 25-JUN-1998; 98US-0090688P.
PR 25-JUN-1998; 98US-0090690P.
PR 25-JUN-1998; 98US-0090694P.
PR 25-JUN-1998; 98US-0090695P.
PR 25-JUN-1998; 98US-0090696P.
PR 26-JUN-1998; 98US-00105413.
PR 26-JUN-1998; 98US-0090862P.
PR 26-JUN-1998; 98US-0090863P.
PR 26-JUN-1998; 98US-0091010P.
PR 01-JUL-1998; 98US-0091359P.
PR 01-JUL-1998; 98US-0091544P.
PR 02-JUL-1998; 98US-0091478P.
PR 02-JUL-1998; 98US-0091486P.
PR 02-JUL-1998; 98US-0091626P.
PR 02-JUL-1998; 98US-0091628P.
PR 02-JUL-1998; 98US-0091632P.
PR 24-JUL-1998; 98US-0094006P.
PR 04-AUG-1998; 98US-0095282P.
PR 10-AUG-1998; 98US-0095998P.
PR 10-AUG-1998; 98US-0096012P.
PR 17-AUG-1998; 98US-0096757P.
PR 17-AUG-1998; 98US-0096766P.
PR 17-AUG-1998; 98US-0096867P.
PR 17-AUG-1998; 98US-0096891P.
PR 17-AUG-1998; 98US-0096897P.
PR 18-AUG-1998; 98US-0096949P.
PR 18-AUG-1998; 98US-0096959P.
PR 18-AUG-1998; 98US-0097022P.
PR 26-AUG-1998; 98US-0097952P.
PR 26-AUG-1998; 98US-0097954P.
PR 26-AUG-1998; 98US-0097955P.
PR 26-AUG-1998; 98US-0097971P.
PR 26-AUG-1998; 98US-0097974P.
PR 26-AUG-1998; 98US-0098014P.
PR 01-SEP-1998; 98US-0098716P.
PR 01-SEP-1998; 98US-0098723P.
PR 02-SEP-1998; 98US-0098803P.
PR 02-SEP-1998; 98US-0098821P.
PR 02-SEP-1998; 98US-0098843P.
PR 09-SEP-1998; 98US-0099602P.
PR 10-SEP-1998; 98US-0099741P.
PR 10-SEP-1998; 98US-0099754P.
PR 10-SEP-1998; 98US-0099763P.
PR 10-SEP-1998; 98US-0099812P.
PR 15-SEP-1998; 98US-0100388P.
PR 16-SEP-1998; 98US-0100662P.
PR 16-SEP-1998; 98US-0100664P.
PR 16-SEP-1998; 98US-0101751P.
PR 16-SEP-1998; 98WO-US019330.
PR 17-SEP-1998; 98US-0100683P.
PR 17-SEP-1998; 98US-0100684P.
PR 17-SEP-1998; 98US-0100919P.
PR 17-SEP-1998; 98US-0100930P.
PR 18-SEP-1998; 98US-0100849P.
PR 18-SEP-1998; 98US-0101014P.
PR 18-SEP-1998; 98US-0101068P.
PR 23-SEP-1998; 98US-0101471P.
PR 23-SEP-1998; 98US-0101472P.


```
PR 12-JUN-1998; 98US-0089105P.
PR 16-JUN-1998; 98US-0089512P.
PR 16-JUN-1998; 98US-0089514P.
PR 17-JUN-1998; 98US-0089538P.
PR 17-JUN-1998; 98US-0089538P.
PR 17-JUN-1998; 98US-0089653P.
PR 18-JUN-1998; 98US-0089908P.
PR 19-JUN-1998; 98US-0089952P.
PR 22-JUN-1998; 98US-0090246P.
PR 22-JUN-1998; 98US-0090252P.
PR 22-JUN-1998; 98US-0090252P.
PR 24-JUN-1998; 98US-0090429P.
PR 24-JUN-1998; 98US-0090435P.
PR 24-JUN-1998; 98US-0090444P.
PR 24-JUN-1998; 98US-0090461P.
PR 24-JUN-1998; 98US-0090535P.
PR 24-JUN-1998; 98US-0090540P.
PR 25-JUN-1998; 98US-0090676P.
PR 25-JUN-1998; 98US-0090678P.
PR 25-JUN-1998; 98US-0090688P.
PR 25-JUN-1998; 98US-0090690P.
PR 25-JUN-1998; 98US-0090694P.
PR 25-JUN-1998; 98US-0090695P.
PR 25-JUN-1998; 98US-0090696P.
PR 26-JUN-1998; 98US-00105413.
PR 26-JUN-1998; 98US-0090862P.
PR 26-JUN-1998; 98US-0090863P.
PR 26-JUN-1998; 98US-0091010P.
PR 01-JUL-1998; 98US-0091359P.
PR 01-JUL-1998; 98US-0091544P.
PR 02-JUL-1998; 98US-0091478P.
PR 02-JUL-1998; 98US-0091486P.
PR 02-JUL-1998; 98US-0091626P.
PR 02-JUL-1998; 98US-0091628P.
PR 02-JUL-1998; 98US-0091632P.
PR 24-JUL-1998; 98US-0094006P.
PR 04-AUG-1998; 98US-0095282P.
PR 10-AUG-1998; 98US-0095998P.
PR 10-AUG-1998; 98US-0096012P.
PR 17-AUG-1998; 98US-0096757P.
PR 17-AUG-1998; 98US-0096766P.
PR 17-AUG-1998; 98US-0096867P.
PR 17-AUG-1998; 98US-0096891P.
PR 17-AUG-1998; 98US-0096897P.
PR 18-AUG-1998; 98US-0096949P.
PR 18-AUG-1998; 98US-0096959P.
PR 18-AUG-1998; 98US-0097022P.
PR 26-AUG-1998; 98US-0097952P.
PR 26-AUG-1998; 98US-0097954P.
PR 26-AUG-1998; 98US-0097955P.
PR 26-AUG-1998; 98US-0097971P.
PR 26-AUG-1998; 98US-0097974P.
PR 26-AUG-1998; 98US-0098014P.
PR 01-SEP-1998; 98US-0098716P.
PR 01-SEP-1998; 98US-0098723P.
PR 02-SEP-1998; 98US-0098803P.
PR 02-SEP-1998; 98US-0098821P.
PR 02-SEP-1998; 98US-0098843P.
PR 09-SEP-1998; 98US-0099602P.
PR 10-SEP-1998; 98US-0099741P.
PR 10-SEP-1998; 98US-0099754P.
PR 10-SEP-1998; 98US-0099763P.
PR 10-SEP-1998; 98US-0099812P.
PR 15-SEP-1998; 98US-0100388P.
PR 16-SEP-1998; 98US-0100662P.
PR 16-SEP-1998; 98US-0100664P.
PR 16-SEP-1998; 98US-0101751P.
PR 16-SEP-1998; 98WO-US019330.
PR 17-SEP-1998; 98US-0100683P.
PR 17-SEP-1998; 98US-0100684P.
PR 17-SEP-1998; 98US-0100919P.
PR 17-SEP-1998; 98US-0100930P.
PR 18-SEP-1998; 98US-0100849P.

PR 18-SEP-1998; 98US-0101014P.
PR 18-SEP-1998; 98US-0101068P.
PR 23-SEP-1998; 98US-0101471P.
PR 23-SEP-1998; 98US-0101472P.
PR 23-SEP-1998; 98US-0101475P.
PR 23-SEP-1998; 98US-0101477P.
PR 24-SEP-1998; 98US-0101738P.
PR 24-SEP-1998; 98US-0101739P.
PR 24-SEP-1998; 98US-0101743P.
PR 24-SEP-1998; 98US-0101922P.
PR 25-SEP-1998; 98US-0101786P.
PR 29-SEP-1998; 98US-0102207P.
PR 29-SEP-1998; 98US-0102240P.
PR 29-SEP-1998; 98US-0102330P.
PR 29-SEP-1998; 98US-0102331P.
PR 30-SEP-1998; 98US-0102487P.
PR 30-SEP-1998; 98US-0102570P.
PR 30-SEP-1998; 98US-0102571P.
PR 01-OCT-1998; 98US-0102684P.
PR 01-OCT-1998; 98US-0102687P.

Query Match 35.5%; Score 150; DB 6; Length 440;
Best Local Similarity 100.0%; Pred. No. 7.7e-135;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 16 SAAALPTGQNLFTKDVTVIEGEVATISQVKNKSDSVIQLLNPNRQTIYFRDPLK 75
DB 32 SAAALPTGQNLFTKDVTVIEGEVATISQVKNKSDSVIQLLNPNRQTIYFRDPLK 91
QY 76 DSRFQLNFSSSELKVLTVNSISDEGRYFCOLYTDPPQESYTTITVLVPPRNLMIDIQK 135
DB 92 DSRFQLNFSSSELKVLTVNSISDEGRYFCOLYTDPPQESYTTITVLVPPRNLMIDIQK 151

QY 136 DTAVEGEEIEVNCVTAMASKPATIRWFKGN 165
DB 152 DTAVEGEEIEVNCVTAMASKPATIRWFKGN 181

RESULT 28
ABR94621
ID ABR94621 standard; protein; 440 AA.
XX
AC ABR94621;
XX
DT 13-SEP-2003 (first entry)
XX
DE Human secreted polypeptide PRO355, SEQ ID NO:34.
XX
KW Human; PRO; secreted protein; transmembrane protein;
KW extracellular domain; tumour necrosis factor-alpha; TNF-alpha;
KW chondrocyte; proliferation; differentiation; cartilage disorder;
KW bone disorder; arthritis; sports injury; cancer; tumour; diagnosis;
KW adrenal tumour; lung; colon; breast; prostate; kidney; rectum; cervix;
KW liver; drug screening; transgenic animal; genetic analysis;
KW antiarthritic; vulnery; gene therapy.
XX
OS Homo sapiens.
XX
XX
PN US2003044926-A1.
XX
PD 06-MAR-2003.
XX
XX
PF 26-JUN-2002; 2002US-00183015.
XX
XX
PR 18-SEP-1997; 97US-0059263P.
PR 18-SEP-1997; 97US-0059266P.
PR 17-OCT-1997; 97US-0062250P.
PR 21-OCT-1997; 97US-0063486P.
PR 24-OCT-1997; 97US-0063120P.
PR 24-OCT-1997; 97US-0063121P.
PR 28-OCT-1997; 97US-0063540P.
PR 28-OCT-1997; 97US-0063541P.
PR 28-OCT-1997; 97US-0063544P.
```

PR 28-OCT-1997; 97US-0063564P.
PR 29-OCT-1997; 97US-0063734P.
PR 31-OCT-1997; 97US-0063870P.
PR 31-OCT-1997; 97US-0064103P.
PR 13-NOV-1997; 97US-0065311P.
PR 21-NOV-1997; 97US-00666120P.
PR 24-NOV-1997; 97US-00666466P.
PR 24-NOV-1997; 97US-0066772P.
PR 11-DEC-1997; 97US-0069335P.
PR 12-DEC-1997; 97US-0069425P.
PR 17-DEC-1997; 97US-0069870P.
PR 18-DEC-1997; 97US-0068017P.
PR 10-MAR-1998; 98US-0077450P.
PR 11-MAR-1998; 98US-0077632P.
PR 11-MAR-1998; 98US-0077649P.
PR 20-MAR-1998; 98US-007886P.
PR 20-MAR-1998; 98US-0078939P.
PR 27-MAR-1998; 98US-0079664P.
PR 27-MAR-1998; 98US-0079786P.
PR 31-MAR-1998; 98US-0080107P.
PR 31-MAR-1998; 98US-0080194P.
PR 01-APR-1998; 98US-0080327P.
PR 01-APR-1998; 98US-0080333P.
PR 08-APR-1998; 98US-0081049P.
PR 08-APR-1998; 98US-0081070P.
PR 09-APR-1998; 98US-0081195P.
PR 15-APR-1998; 98US-0081838P.
PR 21-APR-1998; 98US-0082568P.
PR 21-APR-1998; 98US-0082569P.
PR 22-APR-1998; 98US-0082704P.
PR 22-APR-1998; 98US-0082797P.
PR 28-APR-1998; 98US-0083322P.
PR 29-APR-1998; 98US-0083495P.
PR 29-APR-1998; 98US-0083496P.
PR 29-APR-1998; 98US-0083496P.
PR 29-APR-1998; 98US-0083499P.
PR 29-APR-1998; 98US-0083559P.
PR 05-MAY-1998; 98US-0084366P.
PR 06-MAY-1998; 98US-0084414P.
PR 07-MAY-1998; 98US-0084619P.
PR 07-MAY-1998; 98US-0084640P.
PR 07-MAY-1998; 98US-0084643P.
PR 15-MAY-1998; 98US-0085579P.
PR 15-MAY-1998; 98US-0085580P.
PR 15-MAY-1998; 98US-0085582P.
PR 15-MAY-1998; 98US-0085700P.
PR 18-MAY-1998; 98US-0086023P.
PR 22-MAY-1998; 98US-0086023P.
PR 22-MAY-1998; 98US-0086332P.
PR 22-MAY-1998; 98US-0086486P.
PR 28-MAY-1998; 98US-0087098P.
PR 28-MAY-1998; 98US-0087208P.
PR 02-JUN-1998; 98US-0087609P.
PR 02-JUN-1998; 98US-0087759P.
PR 03-JUN-1998; 98US-0087827P.
PR 04-JUN-1998; 98US-0088025P.
PR 04-JUN-1998; 98US-0088028P.
PR 04-JUN-1998; 98US-0088029P.
PR 04-JUN-1998; 98US-0088033P.
PR 04-JUN-1998; 98US-0088033P.
PR 05-JUN-1998; 98US-0088326P.
PR 05-JUN-1998; 98US-0088167P.
PR 05-JUN-1998; 98US-0088202P.
PR 05-JUN-1998; 98US-0088212P.
PR 05-JUN-1998; 98US-0088217P.
PR 09-JUN-1998; 98US-0088655P.
PR 10-JUN-1998; 98US-0088722P.
PR 10-JUN-1998; 98US-0088738P.
PR 10-JUN-1998; 98US-0088740P.
PR 10-JUN-1998; 98US-0088811P.
PR 10-JUN-1998; 98US-0088824P.
PR 10-JUN-1998; 98US-0088825P.
PR 10-JUN-1998; 98US-0088826P.
PR 11-JUN-1998; 98US-0088861P.
PR 11-JUN-1998; 98US-0088863P.
PR 11-JUN-1998; 98US-0088876P.

PR 12-JUN-1998; 98US-0089090P.
PR 12-JUN-1998; 98US-0089105P.
PR 16-JUN-1998; 98US-0089512P.
PR 16-JUN-1998; 98US-0089514P.
PR 17-JUN-1998; 98US-0089538P.
PR 17-JUN-1998; 98US-0089598P.
PR 17-JUN-1998; 98US-0089653P.
PR 18-JUN-1998; 98US-0089908P.
PR 19-JUN-1998; 98US-0089952P.
PR 22-JUN-1998; 98US-0090246P.
PR 22-JUN-1998; 98US-0090252P.
PR 22-JUN-1998; 98US-0090254P.
PR 24-JUN-1998; 98US-0090429P.
PR 24-JUN-1998; 98US-0090435P.
PR 24-JUN-1998; 98US-0090444P.
PR 24-JUN-1998; 98US-0090461P.
PR 24-JUN-1998; 98US-0090535P.
PR 24-JUN-1998; 98US-0090540P.
PR 25-JUN-1998; 98US-0090676P.
PR 25-JUN-1998; 98US-0090678P.
PR 25-JUN-1998; 98US-0090688P.
PR 25-JUN-1998; 98US-0090690P.
PR 25-JUN-1998; 98US-0090694P.
PR 25-JUN-1998; 98US-0090695P.
PR 25-JUN-1998; 98US-0090696P.
PR 26-JUN-1998; 98US-00105413.
PR 26-JUN-1998; 98US-0090862P.
PR 26-JUN-1998; 98US-0090863P.
PR 26-JUN-1998; 98US-0091010P.
PR 01-JUL-1998; 98US-0091359P.
PR 01-JUL-1998; 98US-0091544P.
PR 02-JUL-1998; 98US-0091478P.
PR 02-JUL-1998; 98US-0091486P.
PR 02-JUL-1998; 98US-0091626P.
PR 02-JUL-1998; 98US-0091628P.
PR 02-JUL-1998; 98US-0091632P.
PR 04-AUG-1998; 98US-0094006P.
PR 04-AUG-1998; 98US-0095282P.
PR 10-AUG-1998; 98US-0095998P.
PR 10-AUG-1998; 98US-0096012P.
PR 17-AUG-1998; 98US-0096757P.
PR 17-AUG-1998; 98US-0096766P.
PR 17-AUG-1998; 98US-0096867P.
PR 17-AUG-1998; 98US-0096891P.
PR 17-AUG-1998; 98US-0096897P.
PR 18-AUG-1998; 98US-0096949P.
PR 18-AUG-1998; 98US-0096559P.
PR 18-AUG-1998; 98US-0097022P.
PR 26-AUG-1998; 98US-0097952P.
PR 26-AUG-1998; 98US-0097954P.
PR 26-AUG-1998; 98US-0097955P.
PR 26-AUG-1998; 98US-0097971P.
PR 26-AUG-1998; 98US-0097974P.
PR 26-AUG-1998; 98US-0098014P.
PR 01-SEP-1998; 98US-0098716P.
PR 01-SEP-1998; 98US-0098723P.
PR 02-SEP-1998; 98US-0098803P.
PR 02-SEP-1998; 98US-0098821P.
PR 02-SEP-1998; 98US-0098843P.
PR 09-SEP-1998; 98US-0099602P.
PR 10-SEP-1998; 98US-0099741P.
PR 10-SEP-1998; 98US-0099754P.
PR 10-SEP-1998; 98US-0099763P.
PR 10-SEP-1998; 98US-0099812P.
PR 15-SEP-1998; 98US-0100388P.
PR 16-SEP-1998; 98US-0100662P.
PR 16-SEP-1998; 98US-0100664P.
PR 16-SEP-1998; 98US-0101751P.
PR 16-SEP-1998; 98WO-US019330.
PR 17-SEP-1998; 98US-0100683P.
PR 17-SEP-1998; 98US-0100684P.
PR 17-SEP-1998; 98US-0100919P.
PR 17-SEP-1998; 98US-0100930P.

```

PR 18-SEP-1998; 98US-0100849P.
PR 18-SEP-1998; 98US-0101014P.
PR 18-SEP-1998; 98US-0101068P.
PR 23-SEP-1998; 98US-0101471P.
PR 23-SEP-1998; 98US-0101472P.
PR 23-SEP-1998; 98US-0101475P.
PR 23-SEP-1998; 98US-0101477P.
PR 24-SEP-1998; 98US-0101718P.
PR 24-SEP-1998; 98US-0101738P.
PR 24-SEP-1998; 98US-0101739P.
PR 24-SEP-1998; 98US-0101743P.
PR 24-SEP-1998; 98US-0101922P.
PR 25-SEP-1998; 98US-0101786P.
PR 29-SEP-1998; 98US-0102207P.
PR 29-SEP-1998; 98US-0102240P.
PR 29-SEP-1998; 98US-0102330P.
PR 29-SEP-1998; 98US-0102331P.
PR 30-SEP-1998; 98US-0102487P.
PR 30-SEP-1998; 98US-0102570P.
PR 30-SEP-1998; 98US-0102571P.
PR 01-OCT-1998; 98US-0102684P.
PR 01-OCT-1998; 98US-0102687P.

Query Match 35.5%; Score 150; DB 6; Length 440;
Best Local Similarity 100.0%; Pred. No. 7.7e-135;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 16 SAALALPTGQNLFTKDVTVIEGEVATISQVKNKSDSVIQLLNPNRQTIYFRDFRPLK 75
Db 32 SAALALPTGQNLFTKDVTVIEGEVATISQVKNKSDSVIQLLNPNRQTIYFRDFRPLK 91

Qy 76 DSRFQLNFFSSSELKVSLSLTNVSISDEGRYFCQLYTDPQESYTTITVLVPPRNLMDIQK 135
Db 92 DSRFQLNFFSSSELKVSLSLTNVSISDEGRYFCQLYTDPQESYTTITVLVPPRNLMDIQK 151

Qy 136 DTAVEGEIEVNCNTAMASKPATIRWFKGN 165
Db 152 DTAVEGEIEVNCNTAMASKPATIRWFKGN 181

RESULT 29
ABU60240
ID ABU60240 standard; protein; 440 AA.
AC ABU60240;
XX
XX 24-APR-2003 (first entry)
DE Human PRO polypeptide #11.
XX
XX Human; PRO; secreted polypeptide; transmembrane polypeptide; cancer;
KW inflammatory disease; atherosclerosis; cardiac injury; AIDS; infertility;
KW birth defect; premature aging; diabetes; dog; cat; horse;
KW acquired immunodeficiency syndrome; cow; sheep; pig; goat; rabbit;
KW industry; cytostatic; antiinflammatory; cardiant; antiinfertility;
KW anti-HIV; antiarteriosclerotic; antidiabetic.
XX
OS Homo sapiens.
XX
XX US2002132768-A1.
XX
XX 19-SEP-2002.
XX
XX 31-AUG-2001; 2001US-00945015.
XX
XX 03-DEC-1997; 97US-0067411P.
XX 11-DEC-1997; 97US-0069278P.
XX 11-DEC-1997; 97US-0069334P.
XX 11-DEC-1997; 97US-0069335P.
XX 12-DEC-1997; 97US-0069425P.
XX 16-DEC-1997; 97US-0069694P.
XX 16-DEC-1997; 97US-0069696P.
XX 16-DEC-1997; 97US-0069702P.
XX 17-DEC-1997; 97US-0069707P.

```

```

PR 17-DEC-1997; 97US-0069873P.
PR 18-DEC-1997; 97US-0068017P.
PR 05-JAN-1998; 98US-0070440P.
PR 09-FEB-1998; 98US-0074086P.
PR 09-FEB-1998; 98US-0074092P.
PR 25-FEB-1998; 98US-0075945P.
PR 16-SEP-1998; 98WO-US019330.
PR 01-DEC-1998; 98WO-US025108.
PR 16-DEC-1998; 98US-00216021.
PR 16-DEC-1998; 98US-0112850P.
PR 22-DEC-1998; 98US-00218517.
PR 22-DEC-1998; 98US-0113296P.
PR 03-MAR-1999; 99US-00254311.
PR 22-JUN-1999; 99WO-US012252.
PR 28-JUL-1999; 99US-0146222P.
PR 15-SEP-1999; 99WO-US021090.
PR 30-NOV-1999; 99WO-US028313.
PR 30-NOV-1999; 99WO-US028409.
PR 01-DEC-1999; 99WO-US028301.
PR 16-DEC-1999; 99WO-US030095.
PR 11-FEB-2000; 2000WO-US003565.
PR 22-FEB-2000; 2000WO-US004414.
PR 02-MAR-2000; 2000WO-US005841.
PR 30-MAR-2000; 2000WO-US008439.
PR 28-MAY-2000; 2000WO-US014042.
PR 28-JUL-2000; 2000WO-US020710.
PR 01-DEC-2000; 2000WO-US032678.
PR 28-FEB-2001; 2001WO-US006520.
PR 25-MAY-2001; 2001US-00866028.

XX (GETH ) GENENTECH INC.
PA Baker KP, Botstein D, Eaton DL, Ferrara N, Filvaroff E;
PI Gerritsen ME, Goddard A, Godowski PJ, Grimaldi JC, Gurney AL;
PI Hillan KJ, Kljavin IJ, Napier MA, Roy MA, Tumas D, Wood WL;
XX WPI; 2003-174098/17.
DR N-PSDB; ABX89477.
XX
XX New secreted and transmembrane polypeptides (e.g. PRO241, for use in
PT pharmaceuticals, diagnostics or bioreactors, particularly for detecting
PT or treating e.g. cancers, infertility or acquired immunodeficiency
PT syndrome in mammals.
XX
XX Claim 1; Fig 24; 173pp; English.
XX
XX The invention relates to a human secreted and transmembrane polypeptide
CC (PRO) and the polynucleotide encoding it. The PRO polypeptide or
CC polynucleotide is useful in pharmaceuticals, diagnostics, biosensors or
CC bioreactors. These are particularly useful for detecting or treating
CC cancers, inflammatory diseases, atherosclerosis, cardiac injury,
CC infertility, birth defects, premature aging, acquired immunodeficiency
CC syndrome (AIDS) and diabetic complications in mammals, e.g. humans, dogs,
CC cats, cattle, horses, sheep, pigs, goats or rabbits. The sequences are
CC also useful in biotechnological and medical research and in various
CC industrial applications. Sequences ABU60240-ABU60245 represent human PRO
CC polypeptides of the invention
XX
XX Sequence 440 AA;
SQ

```

```

Query Match 35.5%; Score 150; DB 6; Length 440;
Best Local Similarity 100.0%; Pred. No. 7.7e-135;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 16 SAALALPTGQNLFTKDVTVIEGEVATISQVKNKSDSVIQLLNPNRQTIYFRDFRPLK 75
Db 32 SAALALPTGQNLFTKDVTVIEGEVATISQVKNKSDSVIQLLNPNRQTIYFRDFRPLK 91

Qy 76 DSRFQLNFFSSSELKVSLSLTNVSISDEGRYFCQLYTDPQESYTTITVLVPPRNLMDIQK 135
Db 92 DSRFQLNFFSSSELKVSLSLTNVSISDEGRYFCQLYTDPQESYTTITVLVPPRNLMDIQK 151

Qy 136 DTAVEGEIEVNCNTAMASKPATIRWFKGN 165

```

```
Db      |||||||
152 DTAVEGEIEVNTAMASKPATTIRWFKGN 181

RESULT 30
ABU85594
ID      ABU85594 standard; protein; 440 AA.
XX      AC      ABU85594;
XX      DT      02-JUL-2003 (first entry)
XX      DE      Human PRO polypeptide #17.
XX      KW      Human; PRO; secreted polypeptide; transmembrane polypeptide;
KW      tumour necrosis factor alpha; TNF-alpha; chondrocyte cell; tumour;
KW      cyostatic.
XX      OS      Homo sapiens.
XX      PN      US2003036140-A1.
XX      PD      20-FEB-2003.
XX      PF      01-JUL-2002; 2002US-00187588.
XX      PR      26-JUN-1998; 98US-00105413.
XX      PR      16-SEP-1998; 98WO-US019330.
XX      PR      07-OCT-1998; 98US-00168978.
XX      PR      07-OCT-1998; 98WO-US021141.
XX      PR      06-NOV-1998; 98US-00187368.
XX      PR      01-DEC-1998; 98WO-US025108.
XX      PR      07-DEC-1998; 98US-00202054.
XX      PR      03-MAR-1999; 98US-00254311.
XX      PR      08-MAR-1999; 99WO-US005028.
XX      PR      14-MAY-1999; 99US-00311832.
XX      PR      02-JUN-1999; 99WO-US010733.
XX      PR      25-AUG-1999; 99US-00380137.
XX      PR      25-AUG-1999; 99US-00380138.
XX      PR      25-AUG-1999; 99US-00380139.
XX      PR      25-AUG-1999; 99US-00380142.
XX      PR      01-SEP-1999; 99WO-US020111.
XX      PR      15-SEP-1999; 99WO-US021090.
XX      PR      12-OCT-1999; 99US-00403297.
XX      PR      12-NOV-1999; 99US-00423844.
XX      PR      01-DEC-1999; 99WO-US028301.
XX      PR      02-DEC-1999; 99WO-US028551.
XX      PR      30-DEC-1999; 99WO-US031274.
XX      PR      05-JAN-2000; 2000WO-US000219.
XX      PR      18-FEB-2000; 2000WO-US004341.
XX      PR      18-FEB-2000; 2000WO-US004342.
XX      PR      22-FEB-2000; 2000WO-US004414.
XX      PR      24-FEB-2000; 2000WO-US005004.
XX      PR      01-MAR-2000; 2000WO-US005601.
XX      PR      02-MAR-2000; 2000WO-US005841.
XX      PR      15-MAR-2000; 2000WO-US006884.
XX      PR      30-MAR-2000; 2000WO-US008439.
XX      PR      17-MAR-2000; 2000WO-US013705.
XX      PR      22-MAY-2000; 2000WO-US014941.
XX      PR      02-JUN-2000; 2000WO-US015264.
XX      PR      28-JUL-2000; 2000WO-US020710.
XX      PR      22-AUG-2000; 2000US-0064848.
XX      PR      24-AUG-2000; 2000WO-US023328.
XX      PR      18-SEP-2000; 2000US-00664610.
XX      PR      18-SEP-2000; 2000US-00665350.
XX      PR      08-NOV-2000; 2000US-00709238.
XX      PR      08-NOV-2000; 2000WO-US030952.
XX      PR      01-DEC-2000; 2000WO-US032878.
XX      PR      20-DEC-2000; 2000US-00747259.
XX      PR      20-DEC-2000; 2000WO-US034956.
XX      PR      28-FEB-2001; 2001WO-US006520.
```

```
PR      22-MAR-2001; 2001US-00816744.
PR      10-MAY-2001; 2001US-00854208.
PR      10-MAY-2001; 2001US-00854280.
PR      25-MAY-2001; 2001US-00866028.
PR      01-JUN-2001; 2001WO-US017800.
PR      05-JUN-2001; 2001US-00874503.
PR      20-JUN-2001; 2001WO-US019692.
PR      29-JUN-2001; 2001WO-US021066.
PR      09-JUL-2001; 2001WO-US021735.
PR      18-JUL-2001; 2001US-00908827.
PR      30-JUL-2001; 2001US-00918585.
PR      06-AUG-2001; 2001US-00924419.
PR      13-AUG-2001; 2001US-00929404.
PR      16-AUG-2001; 2001US-00931836.
PR      28-AUG-2001; 2001US-00941992.
PR      29-AUG-2001; 2001WO-US027099.
PR      04-SEP-2001; 2001US-00946374.
PR      15-JAN-2002; 2002US-00052586.
XX
XX      (GETH ) GENENTECH INC.
XX
XX      Baker KP, Chen J, Desnoyers L, Goddard A, Godowski PJ, Gurney AL;
XX      Pan J, Smith V, Watanabe CK, Wood WI, Zhang Z;
XX      WPI; 2003-332028/31.
XX      DR      N-PSDB; ACA72787.
XX
XX      Three hundred and five nucleic acids encoding PRO polypeptides, useful
XX      for the manufacture of a medicament for diagnosing or treating tumor.
XX
XX      Claim 11; Fig 34; 707pp; English.
XX
XX      The invention relates to human PRO polypeptides (secreted and
XX      transmembrane polypeptides) and the PRO polynucleotides encoding them.
XX      The invention also relates to a method for stimulating the release of
XX      tumour necrosis factor alpha (TNF-alpha) from human blood by contacting
XX      the blood with a sequence of the invention, a method for stimulating the
XX      proliferation or differentiation of chondrocyte cells by contacting the
XX      cells with a PRO polypeptide and a method for detecting the presence of a
XX      tumour in a mammal. The polypeptides and polynucleotides are useful for
XX      the manufacture of a medicament for diagnosing or treating a tumour in a
XX      mammal. Sequences ABU85578-ABU85882 represent human PRO polypeptides of
XX      the invention. Note: The sequence data for this patent is also available
XX      in electronic format from USPTO at seqdata.uspto.gov/sequence.html
XX
XX      SQ      Sequence 440 AA;
XX
XX      Query Match      35.5%; Score 150; DB 6; Length 440;
XX      Best Local Similarity 100.0%; Pred. No. 7.7e-135;
XX      Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
XX      QY      16 SAAALPTGQGNLFTKDVTVIEGEVATISQVKNKSDSVIQLNPNRQTIYFRDPRPLK 75
XX      Db      |||||||
XX      32 SAAALPTGQGNLFTKDVTVIEGEVATISQVKNKSDSVIQLNPNRQTIYFRDPRPLK 91
XX
XX      QY      76 DSRFQLNFSSELKVLNVSISDEGRYFCQLYTDPPQESYTTITVLVPPRLMIDIQK 135
XX      Db      |||||||
XX      92 DSRFQLNFSSELKVLNVSISDEGRYFCQLYTDPPQESYTTITVLVPPRLMIDIQK 151
XX
XX      QY      136 DTAVEGEIEVNTAMASKPATTIRWFKGN 165
XX      Db      |||||||
XX      152 DTAVEGEIEVNTAMASKPATTIRWFKGN 181
XX
XX      RESULT 31
XX      ABU98754
XX      ID      ABU98754 standard; protein; 440 AA.
XX      AC      ABU98754;
XX      DT      01-AUG-2003 (first entry)
XX      DE      Novel human secreted and transmembrane protein PRO355.
```


| | | | | |
|----|--------------|-----------------|----|---|
| PR | 18-AUG-1998; | 98US-00970222P. | DE | Novel human secreted and transmembrane protein PRO355. |
| PR | 26-AUG-1998; | 98US-00979522P. | XX | |
| PR | 26-AUG-1998; | 98US-00979542P. | KW | Human; secreted and transmembrane protein; PRO; cytostatic; gene therapy; |
| PR | 26-AUG-1998; | 98US-00979552P. | KW | chondrocyte stimulator; tumour; adrenal tumour; lung tumour; |
| PR | 26-AUG-1998; | 98US-0097971P. | KW | colon tumour; breast tumour; prostate tumour; rectal tumour; |
| PR | 26-AUG-1998; | 98US-0097974P. | KW | cervical tumour; liver tumour; chromosome identification. |
| PR | 26-AUG-1998; | 98US-0098014P. | XX | |
| PR | 01-SEP-1998; | 98US-0098716P. | OS | Homo sapiens. |
| PR | 01-SEP-1998; | 98US-0098723P. | XX | |
| PR | 02-SEP-1998; | 98US-0098803P. | PN | US2003017544-A1. |
| PR | 02-SEP-1998; | 98US-0098821P. | XX | |
| PR | 02-SEP-1998; | 98US-0098843P. | XX | |
| PR | 09-SEP-1998; | 98US-0099602P. | PD | 23-JAN-2003. |
| PR | 10-SEP-1998; | 98US-0099741P. | XX | |
| PR | 10-SEP-1998; | 98US-0099754P. | PF | 21-JUN-2002; 2002US-00176915. |
| PR | 10-SEP-1998; | 98US-0099763P. | XX | |
| PR | 10-SEP-1998; | 98US-0099812P. | XX | |
| PR | 15-SEP-1998; | 98US-0100388P. | PR | 18-SEP-1997; 97US-0059263P. |
| PR | 16-SEP-1998; | 98US-0100662P. | PR | 18-SEP-1997; 97US-0059266P. |
| PR | 16-SEP-1998; | 98US-0100664P. | PR | 17-OCT-1997; 97US-0062250P. |
| PR | 16-SEP-1998; | 98US-0101751P. | PR | 21-OCT-1997; 97US-0063486P. |
| PR | 16-SEP-1998; | 98WO-US019330. | PR | 24-OCT-1997; 97US-0063120P. |
| PR | 17-SEP-1998; | 98US-0100683P. | PR | 24-OCT-1997; 97US-0063121P. |
| PR | 17-SEP-1998; | 98US-0100684P. | PR | 28-OCT-1997; 97US-0063540P. |
| PR | 17-SEP-1998; | 98US-0100919P. | PR | 28-OCT-1997; 97US-0063541P. |
| PR | 17-SEP-1998; | 98US-0100930P. | PR | 28-OCT-1997; 97US-0063544P. |
| PR | 18-SEP-1998; | 98US-0100849P. | PR | 28-OCT-1997; 97US-0063564P. |
| PR | 18-SEP-1998; | 98US-0101014P. | PR | 31-OCT-1997; 97US-0063734P. |
| PR | 18-SEP-1998; | 98US-0101068P. | PR | 31-OCT-1997; 97US-0064103P. |
| PR | 23-SEP-1998; | 98US-0101471P. | PR | 13-NOV-1997; 97US-0065311P. |
| PR | 23-SEP-1998; | 98US-0101472P. | PR | 21-NOV-1997; 97US-0066120P. |
| PR | 23-SEP-1998; | 98US-0101475P. | PR | 24-NOV-1997; 97US-0066466P. |
| PR | 23-SEP-1998; | 98US-0101477P. | PR | 24-NOV-1997; 97US-0066772P. |
| PR | 24-SEP-1998; | 98US-0101738P. | PR | 11-DEC-1997; 97US-0069335P. |
| PR | 24-SEP-1998; | 98US-0101739P. | PR | 11-DEC-1997; 97US-0069425P. |
| PR | 24-SEP-1998; | 98US-0101743P. | PR | 17-DEC-1997; 97US-0069870P. |
| PR | 24-SEP-1998; | 98US-0101922P. | PR | 18-DEC-1997; 97US-0068017P. |
| PR | 25-SEP-1998; | 98US-0101786P. | PR | 10-MAR-1998; 98US-0077450P. |
| PR | 29-SEP-1998; | 98US-0102207P. | PR | 11-MAR-1998; 98US-0077632P. |
| PR | 29-SEP-1998; | 98US-0102240P. | PR | 11-MAR-1998; 98US-0077649P. |
| PR | 29-SEP-1998; | 98US-0102331P. | PR | 20-MAR-1998; 98US-0078886P. |
| PR | 30-SEP-1998; | 98US-0102487P. | PR | 27-MAR-1998; 98US-0078939P. |
| PR | 30-SEP-1998; | 98US-0102570P. | PR | 27-MAR-1998; 98US-0079664P. |
| PR | 30-SEP-1998; | 98US-0102571P. | PR | 31-MAR-1998; 98US-0079786P. |
| PR | 01-OCT-1998; | 98US-0102684P. | PR | 31-MAR-1998; 98US-0080107P. |
| PR | 01-OCT-1998; | 98US-0102687P. | PR | 01-APR-1998; 98US-0080194P. |
| PR | 01-OCT-1998; | 98US-0102687P. | PR | 01-APR-1998; 98US-0080327P. |
| PR | 01-OCT-1998; | 98US-0102687P. | PR | 01-APR-1998; 98US-0080333P. |
| PR | 01-OCT-1998; | 98US-0102687P. | PR | 08-APR-1998; 98US-0081049P. |
| PR | 01-OCT-1998; | 98US-0102687P. | PR | 08-APR-1998; 98US-0081070P. |
| PR | 01-OCT-1998; | 98US-0102687P. | PR | 09-APR-1998; 98US-0081195P. |
| PR | 01-OCT-1998; | 98US-0102687P. | PR | 15-APR-1998; 98US-0081838P. |
| PR | 01-OCT-1998; | 98US-0102687P. | PR | 21-APR-1998; 98US-0082568P. |
| PR | 01-OCT-1998; | 98US-0102687P. | PR | 21-APR-1998; 98US-0082569P. |
| PR | 01-OCT-1998; | 98US-0102687P. | PR | 22-APR-1998; 98US-0082704P. |
| PR | 01-OCT-1998; | 98US-0102687P. | PR | 22-APR-1998; 98US-0082797P. |
| PR | 01-OCT-1998; | 98US-0102687P. | PR | 28-APR-1998; 98US-0083322P. |
| PR | 01-OCT-1998; | 98US-0102687P. | PR | 28-APR-1998; 98US-0083495P. |
| PR | 01-OCT-1998; | 98US-0102687P. | PR | 29-APR-1998; 98US-0083496P. |
| PR | 01-OCT-1998; | 98US-0102687P. | PR | 29-APR-1998; 98US-0083499P. |
| PR | 01-OCT-1998; | 98US-0102687P. | PR | 29-APR-1998; 98US-0083559P. |
| PR | 01-OCT-1998; | 98US-0102687P. | PR | 05-MAY-1998; 98US-0084366P. |
| PR | 01-OCT-1998; | 98US-0102687P. | PR | 06-MAY-1998; 98US-0084414P. |
| PR | 01-OCT-1998; | 98US-0102687P. | PR | 07-MAY-1998; 98US-0084639P. |
| PR | 01-OCT-1998; | 98US-0102687P. | PR | 07-MAY-1998; 98US-0084640P. |
| PR | 01-OCT-1998; | 98US-0102687P. | PR | 07-MAY-1998; 98US-0084643P. |
| PR | 01-OCT-1998; | 98US-0102687P. | PR | 15-MAY-1998; 98US-0085579P. |
| PR | 01-OCT-1998; | 98US-0102687P. | PR | 15-MAY-1998; 98US-0085580P. |
| PR | 01-OCT-1998; | 98US-0102687P. | PR | 15-MAY-1998; 98US-0085582P. |
| PR | 01-OCT-1998; | 98US-0102687P. | PR | 15-MAY-1998; 98US-0085700P. |
| PR | 01-OCT-1998; | 98US-0102687P. | PR | 18-MAY-1998; 98US-0086023P. |
| PR | 01-OCT-1998; | 98US-0102687P. | PR | 22-MAY-1998; 98US-0086392P. |
| PR | 01-OCT-1998; | 98US-0102687P. | PR | 22-MAY-1998; 98US-0086486P. |
| PR | 01-OCT-1998; | 98US-0102687P. | PR | 22-MAY-1998; 98US-0087098P. |

Query Match 35.5%; Score 150; DB 6; Length 440;
Best Local Similarity 100.0%; Pred. No. 7.7e-135;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

| | | | |
|----|-----|--|-----|
| Qy | 16 | SAALITGTGQNLFTKDVTVIEGEVATISCVNKSDDSVIQLNPNRQTIYFRDPRPLK | 75 |
| Db | 32 | SAALITGTGQNLFTKDVTVIEGEVATISCVNKSDDSVIQLNPNRQTIYFRDPRPLK | 91 |
| Qy | 76 | DSRFQLNFSSELKSLVNTNVSISDEGRYFCQLYTDPPQESYTTITVLVPPRNLMDIQK | 135 |
| Db | 92 | DSRFQLNFSSELKSLVNTNVSISDEGRYFCQLYTDPPQESYTTITVLVPPRNLMDIQK | 151 |
| Qy | 136 | DTAVEGEIEVNCVTAMASKPATTIRWPKGN | 165 |
| Db | 152 | DTAVEGEIEVNCVTAMASKPATTIRWPKGN | 181 |

RESULT 32
ABU97969
ID ABU97969 standard; protein; 440 AA.
XX AC ABU97969;
XX AC ABU97969;
XX DT 30-JUL-2003 (first entry)
XX


```
PR 28-MAY-1998; 98US-0087208P.
PR 02-JUN-1998; 98US-0087609P.
PR 02-JUN-1998; 98US-0087759P.
PR 03-JUN-1998; 98US-0087827P.
PR 04-JUN-1998; 98US-0088025P.
PR 04-JUN-1998; 98US-0088028P.
PR 04-JUN-1998; 98US-0088029P.
PR 04-JUN-1998; 98US-0088033P.
PR 04-JUN-1998; 98US-0088036P.
PR 05-JUN-1998; 98US-0088167P.
PR 05-JUN-1998; 98US-0088202P.
PR 05-JUN-1998; 98US-0088212P.
PR 05-JUN-1998; 98US-0088217P.
PR 09-JUN-1998; 98US-0088655P.
PR 10-JUN-1998; 98US-0088722P.
PR 10-JUN-1998; 98US-0088738P.
PR 10-JUN-1998; 98US-0088740P.
PR 10-JUN-1998; 98US-0088811P.
PR 10-JUN-1998; 98US-0088824P.
PR 10-JUN-1998; 98US-0088825P.
PR 10-JUN-1998; 98US-0088826P.
PR 11-JUN-1998; 98US-0088861P.
PR 11-JUN-1998; 98US-0088863P.
PR 11-JUN-1998; 98US-0088876P.
PR 12-JUN-1998; 98US-0089090P.
PR 12-JUN-1998; 98US-0089105P.
PR 16-JUN-1998; 98US-0089512P.
PR 16-JUN-1998; 98US-0089514P.
PR 17-JUN-1998; 98US-0089538P.
PR 17-JUN-1998; 98US-0089598P.
PR 17-JUN-1998; 98US-0089653P.
PR 18-JUN-1998; 98US-0089908P.
PR 19-JUN-1998; 98US-0089926P.
PR 22-JUN-1998; 98US-0090242P.
PR 22-JUN-1998; 98US-0090252P.
PR 22-JUN-1998; 98US-0090254P.
PR 24-JUN-1998; 98US-0090429P.
PR 24-JUN-1998; 98US-0090435P.
PR 24-JUN-1998; 98US-0090444P.
PR 24-JUN-1998; 98US-0090461P.
PR 24-JUN-1998; 98US-0090535P.
PR 24-JUN-1998; 98US-0090540P.
PR 25-JUN-1998; 98US-0090676P.
PR 25-JUN-1998; 98US-0090678P.
PR 25-JUN-1998; 98US-0090688P.
PR 25-JUN-1998; 98US-0090690P.
PR 25-JUN-1998; 98US-0090694P.
PR 25-JUN-1998; 98US-0090695P.
PR 25-JUN-1998; 98US-0090696P.
PR 26-JUN-1998; 98US-00105413.
PR 26-JUN-1998; 98US-0090862P.
PR 26-JUN-1998; 98US-0090863P.
PR 26-JUN-1998; 98US-0090863P.
PR 01-JUL-1998; 98US-0091010P.
PR 01-JUL-1998; 98US-0091359P.
PR 02-JUL-1998; 98US-0091544P.
PR 02-JUL-1998; 98US-0091478P.
PR 02-JUL-1998; 98US-0091486P.
PR 02-JUL-1998; 98US-0091626P.
PR 02-JUL-1998; 98US-0091628P.
PR 02-JUL-1998; 98US-0091632P.
PR 24-JUL-1998; 98US-0094006P.
PR 04-AUG-1998; 98US-0095282P.
PR 10-AUG-1998; 98US-0095998P.
PR 10-AUG-1998; 98US-0096012P.
PR 17-AUG-1998; 98US-0096757P.
PR 17-AUG-1998; 98US-0096766P.
PR 17-AUG-1998; 98US-0096867P.
PR 17-AUG-1998; 98US-0096891P.
PR 17-AUG-1998; 98US-0096897P.
PR 18-AUG-1998; 98US-0096949P.
PR 18-AUG-1998; 98US-0096959P.
PR 18-AUG-1998; 98US-0097022P.
PR 26-AUG-1998; 98US-0097952P.

PR 26-AUG-1998; 98US-0097954P.
PR 26-AUG-1998; 98US-0097955P.
PR 26-AUG-1998; 98US-0097971P.
PR 26-AUG-1998; 98US-0097974P.
PR 01-SEP-1998; 98US-0098014P.
PR 01-SEP-1998; 98US-0098716P.
PR 01-SEP-1998; 98US-0098723P.
PR 02-SEP-1998; 98US-0098803P.
PR 02-SEP-1998; 98US-0098821P.
PR 02-SEP-1998; 98US-0098843P.
PR 09-SEP-1998; 98US-0099602P.
PR 10-SEP-1998; 98US-0099741P.
PR 10-SEP-1998; 98US-0099754P.
PR 10-SEP-1998; 98US-0099812P.
PR 13-SEP-1998; 98US-0100388P.
PR 16-SEP-1998; 98US-0100662P.
PR 16-SEP-1998; 98US-0100664P.
PR 16-SEP-1998; 98US-0101751P.
PR 17-SEP-1998; 98US-0100833P.
PR 17-SEP-1998; 98US-0100864P.
PR 17-SEP-1998; 98US-0100919P.
PR 17-SEP-1998; 98US-0100930P.
PR 18-SEP-1998; 98US-0100849P.
PR 18-SEP-1998; 98US-0101014P.
PR 18-SEP-1998; 98US-0101068P.
PR 23-SEP-1998; 98US-0101471P.
PR 23-SEP-1998; 98US-0101472P.
PR 23-SEP-1998; 98US-0101475P.
PR 23-SEP-1998; 98US-0101477P.
PR 24-SEP-1998; 98US-0101738P.
PR 24-SEP-1998; 98US-0101739P.
PR 24-SEP-1998; 98US-0101743P.
PR 24-SEP-1998; 98US-0101922P.
PR 25-SEP-1998; 98US-0101786P.
PR 29-SEP-1998; 98US-010207P.
PR 29-SEP-1998; 98US-0102240P.
PR 29-SEP-1998; 98US-0102330P.
PR 29-SEP-1998; 98US-0102331P.
PR 30-SEP-1998; 98US-0102487P.
PR 30-SEP-1998; 98US-0102570P.
PR 30-SEP-1998; 98US-0102571P.
PR 01-OCT-1998; 98US-0102684P.
PR 01-OCT-1998; 98US-0102687P.
PR 02-OCT-1998; 98US-0102965P.
PR 06-OCT-1998; 98US-0103258P.
PR 06-OCT-1998; 98US-0103449P.

Query Match 35.5%; Score 150; DB 6; Length 440;
Best Local Similarity 100.0%; Pred. No. 7.7e-135;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 16 SAAALPTGQQLFTKDVTVIEGEVATISQVKNKSDSVIQLNPNRQTIYFRDPLK 75
Db 32 SAAALPTGQQLFTKDVTVIEGEVATISQVKNKSDSVIQLNPNRQTIYFRDPLK 91
Qy 76 DSRQLNLFSSSELKSLTNVSIISDEGRYFCQLYTDPQESYTTITVLVPPNLMIDIQK 135
Db 92 DSRQLNLFSSSELKSLTNVSIISDEGRYFCQLYTDPQESYTTITVLVPPNLMIDIQK 151
Qy 136 DTAVEGEIEVNCNTAMASKPATIRWFKGN 165
Db 152 DTAVEGEIEVNCNTAMASKPATIRWFKGN 181

RESULT 33
ABU91675
ID ABU91675 standard; protein; 440 AA.
XX AC ABU91675;
XX AC ABU91675;
DT 11-AUG-2003 (first entry)
```

XX Novel human secreted and transmembrane protein PRO355.
XX Human; Gene therapy; chromosome identification; tissue typing.
XX Homo sapiens.
XX US2003027277-A1.
XX 06-FEB-2003.
XX 21-JUN-2002; 2002US-00176985.
XX 18-SEP-1997; 97US-0059263P.
PR 18-SEP-1997; 97US-0059266P.
PR 17-OCT-1997; 97US-0062250P.
PR 21-OCT-1997; 97US-0063486P.
PR 24-OCT-1997; 97US-0063120P.
PR 24-OCT-1997; 97US-0063111P.
PR 28-OCT-1997; 97US-0063540P.
PR 28-OCT-1997; 97US-0063541P.
PR 28-OCT-1997; 97US-0063544P.
PR 28-OCT-1997; 97US-0063564P.
PR 29-OCT-1997; 97US-0063734P.
PR 31-OCT-1997; 97US-0063870P.
PR 31-OCT-1997; 97US-0064103P.
PR 13-NOV-1997; 97US-0065311P.
PR 21-NOV-1997; 97US-0066120P.
PR 24-NOV-1997; 97US-0066466P.
PR 24-NOV-1997; 97US-0066772P.
PR 12-DEC-1997; 97US-0069335P.
PR 17-DEC-1997; 97US-0069425P.
PR 18-DEC-1997; 97US-0069870P.
PR 10-MAR-1998; 98US-0077450P.
PR 11-MAR-1998; 98US-0077632P.
PR 11-MAR-1998; 98US-0077649P.
PR 20-MAR-1998; 98US-0078886P.
PR 20-MAR-1998; 98US-0078939P.
PR 27-MAR-1998; 98US-0079664P.
PR 27-MAR-1998; 98US-0079786P.
PR 31-MAR-1998; 98US-0080107P.
PR 31-MAR-1998; 98US-0080194P.
PR 01-APR-1998; 98US-0080327P.
PR 01-APR-1998; 98US-0080333P.
PR 08-APR-1998; 98US-0081049P.
PR 08-APR-1998; 98US-0081070P.
PR 09-APR-1998; 98US-0081195P.
PR 15-APR-1998; 98US-0081838P.
PR 21-APR-1998; 98US-0082568P.
PR 21-APR-1998; 98US-0082569P.
PR 22-APR-1998; 98US-0082704P.
PR 22-APR-1998; 98US-0082797P.
PR 28-APR-1998; 98US-0083322P.
PR 29-APR-1998; 98US-0083495P.
PR 29-APR-1998; 98US-0083496P.
PR 29-APR-1998; 98US-0083499P.
PR 29-APR-1998; 98US-0083559P.
PR 05-MAY-1998; 98US-0084366P.
PR 06-MAY-1998; 98US-0084414P.
PR 07-MAY-1998; 98US-0084639P.
PR 07-MAY-1998; 98US-0084640P.
PR 07-MAY-1998; 98US-0084643P.
PR 15-MAY-1998; 98US-0085579P.
PR 15-MAY-1998; 98US-0085580P.
PR 15-MAY-1998; 98US-0085582P.
PR 15-MAY-1998; 98US-0085700P.
PR 18-MAY-1998; 98US-0086023P.
PR 22-MAY-1998; 98US-0086392P.
PR 22-MAY-1998; 98US-0086486P.
PR 28-MAY-1998; 98US-0087098P.
PR 28-MAY-1998; 98US-0087208P.
PR 02-JUN-1998; 98US-0087609P.

PR 02-JUN-1998; 98US-0087759P.
PR 03-JUN-1998; 98US-0087827P.
PR 04-JUN-1998; 98US-0088025P.
PR 04-JUN-1998; 98US-0088028P.
PR 04-JUN-1998; 98US-0088029P.
PR 04-JUN-1998; 98US-0088033P.
PR 05-JUN-1998; 98US-0088326P.
PR 05-JUN-1998; 98US-0088167P.
PR 05-JUN-1998; 98US-0088202P.
PR 05-JUN-1998; 98US-0088212P.
PR 05-JUN-1998; 98US-0088217P.
PR 09-JUN-1998; 98US-0088655P.
PR 10-JUN-1998; 98US-0088722P.
PR 10-JUN-1998; 98US-0088738P.
PR 10-JUN-1998; 98US-0088740P.
PR 10-JUN-1998; 98US-0088811P.
PR 10-JUN-1998; 98US-0088824P.
PR 10-JUN-1998; 98US-0088825P.
PR 10-JUN-1998; 98US-0088826P.
PR 11-JUN-1998; 98US-0088861P.
PR 11-JUN-1998; 98US-0088863P.
PR 11-JUN-1998; 98US-0088876P.
PR 12-JUN-1998; 98US-0089090P.
PR 12-JUN-1998; 98US-0089105P.
PR 16-JUN-1998; 98US-0089512P.
PR 16-JUN-1998; 98US-0089514P.
PR 17-JUN-1998; 98US-0089538P.
PR 17-JUN-1998; 98US-0089598P.
PR 17-JUN-1998; 98US-0089653P.
PR 18-JUN-1998; 98US-0089908P.
PR 19-JUN-1998; 98US-0089952P.
PR 22-JUN-1998; 98US-0090246P.
PR 22-JUN-1998; 98US-0090252P.
PR 22-JUN-1998; 98US-0090254P.
PR 24-JUN-1998; 98US-0090429P.
PR 24-JUN-1998; 98US-0090435P.
PR 24-JUN-1998; 98US-0090444P.
PR 24-JUN-1998; 98US-0090461P.
PR 24-JUN-1998; 98US-0090535P.
PR 24-JUN-1998; 98US-0090540P.
PR 25-JUN-1998; 98US-0090676P.
PR 25-JUN-1998; 98US-0090678P.
PR 25-JUN-1998; 98US-0090688P.
PR 25-JUN-1998; 98US-0090690P.
PR 25-JUN-1998; 98US-0090694P.
PR 25-JUN-1998; 98US-0090695P.
PR 25-JUN-1998; 98US-0090896P.
PR 26-JUN-1998; 98US-00105413.
PR 26-JUN-1998; 98US-0090862P.
PR 26-JUN-1998; 98US-0090863P.
PR 26-JUN-1998; 98US-0091010P.
PR 01-JUL-1998; 98US-0091359P.
PR 01-JUL-1998; 98US-0091544P.
PR 02-JUL-1998; 98US-0091478P.
PR 02-JUL-1998; 98US-0091486P.
PR 02-JUL-1998; 98US-0091626P.
PR 02-JUL-1998; 98US-0091628P.
PR 02-JUL-1998; 98US-0091632P.
PR 24-JUL-1998; 98US-0094006P.
PR 04-AUG-1998; 98US-0095282P.
PR 10-AUG-1998; 98US-0095998P.
PR 10-AUG-1998; 98US-0096012P.
PR 17-AUG-1998; 98US-0096757P.
PR 17-AUG-1998; 98US-0096766P.
PR 17-AUG-1998; 98US-0096867P.
PR 17-AUG-1998; 98US-0096891P.
PR 17-AUG-1998; 98US-0096897P.
PR 18-AUG-1998; 98US-0096949P.
PR 18-AUG-1998; 98US-0096959P.
PR 18-AUG-1998; 98US-0097022P.
PR 26-AUG-1998; 98US-0097952P.
PR 26-AUG-1998; 98US-0097954P.
PR 26-AUG-1998; 98US-0097955P.

```
PR 26-AUG-1998; 98US-0097971P.
PR 26-AUG-1998; 98US-0097974P.
PR 26-AUG-1998; 98US-0098014P.
PR 01-SEP-1998; 98US-0098716P.
PR 01-SEP-1998; 98US-0098723P.
PR 02-SEP-1998; 98US-0098803P.
PR 02-SEP-1998; 98US-0098821P.
PR 02-SEP-1998; 98US-0098843P.
PR 02-SEP-1998; 98US-0098862P.
PR 09-SEP-1998; 98US-0099602P.
PR 10-SEP-1998; 98US-0099741P.
PR 10-SEP-1998; 98US-0099754P.
PR 10-SEP-1998; 98US-0099763P.
PR 10-SEP-1998; 98US-0099812P.
PR 15-SEP-1998; 98US-0100388P.
PR 16-SEP-1998; 98US-0100662P.
PR 16-SEP-1998; 98US-0100664P.
PR 16-SEP-1998; 98US-0101751P.
PR 16-SEP-1998; 98US-01019330.
PR 17-SEP-1998; 98US-0100683P.
PR 17-SEP-1998; 98US-0100684P.
PR 17-SEP-1998; 98US-0100919P.
PR 17-SEP-1998; 98US-0100930P.
PR 18-SEP-1998; 98US-0100849P.
PR 18-SEP-1998; 98US-0101014P.
PR 18-SEP-1998; 98US-0101014P.
PR 18-SEP-1998; 98US-0101068P.
PR 23-SEP-1998; 98US-0101471P.
PR 23-SEP-1998; 98US-0101472P.
PR 23-SEP-1998; 98US-0101475P.
PR 23-SEP-1998; 98US-0101477P.
PR 24-SEP-1998; 98US-0101738P.
PR 24-SEP-1998; 98US-0101738P.
PR 24-SEP-1998; 98US-0101739P.
PR 24-SEP-1998; 98US-0101743P.
PR 24-SEP-1998; 98US-0101922P.
PR 25-SEP-1998; 98US-0101786P.
PR 29-SEP-1998; 98US-0102207P.
PR 29-SEP-1998; 98US-0102240P.
PR 29-SEP-1998; 98US-0102330P.
PR 29-SEP-1998; 98US-0102331P.
PR 30-SEP-1998; 98US-0102487P.
PR 30-SEP-1998; 98US-0102570P.
PR 30-SEP-1998; 98US-0102571P.
PR 01-OCT-1998; 98US-0102684P.
PR 01-OCT-1998; 98US-0102687P.
PR 02-OCT-1998; 98US-0102965P.
PR 06-OCT-1998; 98US-0103258P.
PR 06-OCT-1998; 98US-0103449P.
PR 07-OCT-1998; 98US-00168978.
PR 07-OCT-1998; 98US-0103395P.
PR 07-OCT-1998; 98US-0103401P.
PR 07-OCT-1998; 98US-0103401P.

Query Match 35.5%; Score 150; DB 6; Length 440;
Best Local Similarity 100.0%; Pred. No. 7.7e-135;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 16 SAALITGQGNFTKDVTVIEGVATISQVKNKSDSVIQLLNPRQTIYFRDFRPLK 75
Db 32 SAALITGQGNFTKDVTVIEGVATISQVKNKSDSVIQLLNPRQTIYFRDFRPLK 91
Qy 76 DSRFOLLNFSSELKUSLTNVSISDEGRYFCQLYTDPQESYTTITVLVPPRNLMIDIQK 135
Db 92 DSRFOLLNFSSELKUSLTNVSISDEGRYFCQLYTDPQESYTTITVLVPPRNLMIDIQK 151
Qy 136 DTAVEGEIEVNCVTAMASKPATIRWFKGN 165
Db 152 DTAVEGEIEVNCVTAMASKPATIRWFKGN 181

RESULT 34
ID ABU89368
XX ABU89368 standard; protein; 440 AA.
AC ABU89368;
XX
```

```
DT 09-JUL-2003 (first entry)
XX Human PRO polypeptide #17.
DE
XX
KW Human; PRO polypeptide; secreted protein; transmembrane protein;
KW chromosome mapping; gene mapping; tumour; adrenal; lung; colon; breast;
KW prostate; rectal; cervical; liver; cancer; TNF-alpha;
KW tumour necrosis factor-alpha; proliferation; differentiation;
KW chondrocyte cell; bone disorder; cartilage disorder; sports injury;
KW arthritis; cytostatic; antiarthritic; osteopathic.
XX
OS Homo sapiens.
XX
XX US2003036141-A1.
XX
PD 20-FEB-2003.
XX
XX 01-JUL-2002; 2002US-00187597.
XX
PR 18-SEP-1997; 97US-0059263P.
PR 18-SEP-1997; 97US-0059266P.
PR 17-OCT-1997; 97US-0062250P.
PR 21-OCT-1997; 97US-0063486P.
PR 24-OCT-1997; 97US-0063120P.
PR 24-OCT-1997; 97US-0063121P.
PR 28-OCT-1997; 97US-0063540P.
PR 28-OCT-1997; 97US-0063541P.
PR 28-OCT-1997; 97US-0063544P.
PR 28-OCT-1997; 97US-0063564P.
PR 29-OCT-1997; 97US-0063734P.
PR 31-OCT-1997; 97US-0063870P.
PR 31-OCT-1997; 97US-0064103P.
PR 13-NOV-1997; 97US-0065311P.
PR 21-NOV-1997; 97US-0066120P.
PR 24-NOV-1997; 97US-0066466P.
PR 24-NOV-1997; 97US-0066772P.
PR 11-DEC-1997; 97US-0069335P.
PR 12-DEC-1997; 97US-0069425P.
PR 12-DEC-1997; 97US-0069870P.
PR 18-DEC-1997; 97US-0068017P.
PR 10-MAR-1998; 97US-0077450P.
PR 11-MAR-1998; 97US-0077632P.
PR 11-MAR-1998; 97US-0077649P.
PR 20-MAR-1998; 97US-0078886P.
PR 20-MAR-1998; 97US-0078939P.
PR 27-MAR-1998; 97US-0079664P.
PR 27-MAR-1998; 97US-0079786P.
PR 31-MAR-1998; 97US-0080107P.
PR 31-MAR-1998; 97US-0080194P.
PR 01-APR-1998; 97US-0080327P.
PR 01-APR-1998; 97US-0080333P.
PR 08-APR-1998; 97US-0081049P.
PR 08-APR-1998; 97US-0081070P.
PR 09-APR-1998; 97US-0081195P.
PR 15-APR-1998; 97US-0081388P.
PR 21-APR-1998; 97US-0082568P.
PR 21-APR-1998; 97US-0082569P.
PR 22-APR-1998; 97US-0082704P.
PR 22-APR-1998; 97US-0082797P.
PR 28-APR-1998; 97US-0083322P.
PR 28-APR-1998; 97US-0083495P.
PR 29-APR-1998; 97US-0083496P.
PR 29-APR-1998; 97US-0083499P.
PR 29-APR-1998; 97US-0083559P.
PR 05-MAY-1998; 97US-0084366P.
PR 06-MAY-1998; 97US-0084414P.
PR 07-MAY-1998; 97US-0084639P.
PR 07-MAY-1998; 97US-0084640P.
PR 07-MAY-1998; 97US-0084643P.
PR 15-MAY-1998; 97US-0085579P.
PR 15-MAY-1998; 97US-0085580P.
PR 15-MAY-1998; 97US-0085582P.
PR 15-MAY-1998; 97US-0085700P.
```

| | | | |
|---|---|-----------------|---|
| PR 18-MAY-1998; | 98US-0086023P. | PR 18-AUG-1998; | 98US-0096949P. |
| PR 22-MAY-1998; | 98US-0086392P. | PR 18-AUG-1998; | 98US-0096959P. |
| PR 22-MAY-1998; | 98US-0086486P. | PR 18-AUG-1998; | 98US-0097022P. |
| PR 28-MAY-1998; | 98US-0087098P. | PR 26-AUG-1998; | 98US-0097952P. |
| PR 28-MAY-1998; | 98US-0087208P. | PR 26-AUG-1998; | 98US-0097954P. |
| PR 02-JUN-1998; | 98US-0087609P. | PR 26-AUG-1998; | 98US-0097955P. |
| PR 02-JUN-1998; | 98US-0087759P. | PR 26-AUG-1998; | 98US-0097971P. |
| PR 03-JUN-1998; | 98US-0087827P. | PR 26-AUG-1998; | 98US-0097974P. |
| PR 04-JUN-1998; | 98US-0088025P. | PR 26-AUG-1998; | 98US-0098014P. |
| PR 04-JUN-1998; | 98US-0088028P. | PR 01-SEP-1998; | 98US-0098716P. |
| PR 04-JUN-1998; | 98US-0088029P. | PR 01-SEP-1998; | 98US-0098723P. |
| PR 04-JUN-1998; | 98US-0088033P. | PR 02-SEP-1998; | 98US-0098803P. |
| PR 04-JUN-1998; | 98US-0088326P. | PR 02-SEP-1998; | 98US-0098821P. |
| PR 05-JUN-1998; | 98US-0088167P. | PR 02-SEP-1998; | 98US-0098843P. |
| PR 05-JUN-1998; | 98US-0088202P. | PR 09-SEP-1998; | 98US-0099602P. |
| PR 05-JUN-1998; | 98US-0088212P. | PR 10-SEP-1998; | 98US-0099741P. |
| PR 05-JUN-1998; | 98US-0088217P. | PR 10-SEP-1998; | 98US-0099754P. |
| PR 09-JUN-1998; | 98US-0088655P. | PR 10-SEP-1998; | 98US-0099763P. |
| PR 10-JUN-1998; | 98US-0088722P. | PR 10-SEP-1998; | 98US-0099812P. |
| PR 10-JUN-1998; | 98US-0088738P. | PR 15-SEP-1998; | 98US-0100388P. |
| PR 10-JUN-1998; | 98US-0088740P. | PR 16-SEP-1998; | 98US-0100662P. |
| PR 10-JUN-1998; | 98US-0088811P. | PR 16-SEP-1998; | 98US-0100664P. |
| PR 10-JUN-1998; | 98US-0088824P. | PR 16-SEP-1998; | 98US-0101751P. |
| PR 10-JUN-1998; | 98US-0088825P. | PR 16-SEP-1998; | 98US-0101751P. |
| PR 10-JUN-1998; | 98US-0088826P. | PR 16-SEP-1998; | 98US-0101751P. |
| PR 11-JUN-1998; | 98US-0088861P. | PR 17-SEP-1998; | 98US-0100683P. |
| PR 11-JUN-1998; | 98US-0088863P. | PR 17-SEP-1998; | 98US-0100684P. |
| PR 11-JUN-1998; | 98US-0088876P. | PR 17-SEP-1998; | 98US-0100919P. |
| PR 11-JUN-1998; | 98US-0088876P. | PR 17-SEP-1998; | 98US-0100930P. |
| PR 12-JUN-1998; | 98US-0089090P. | PR 18-SEP-1998; | 98US-0100849P. |
| PR 12-JUN-1998; | 98US-0089105P. | PR 18-SEP-1998; | 98US-0101014P. |
| PR 16-JUN-1998; | 98US-0089512P. | PR 18-SEP-1998; | 98US-0101068P. |
| PR 16-JUN-1998; | 98US-0089514P. | PR 23-SEP-1998; | 98US-0101471P. |
| PR 17-JUN-1998; | 98US-0089538P. | PR 23-SEP-1998; | 98US-0101472P. |
| PR 17-JUN-1998; | 98US-0089598P. | PR 23-SEP-1998; | 98US-0101475P. |
| PR 17-JUN-1998; | 98US-0089633P. | PR 23-SEP-1998; | 98US-0101477P. |
| PR 18-JUN-1998; | 98US-0089908P. | PR 24-SEP-1998; | 98US-0101738P. |
| PR 19-JUN-1998; | 98US-0089952P. | PR 24-SEP-1998; | 98US-0101739P. |
| PR 22-JUN-1998; | 98US-0090246P. | PR 24-SEP-1998; | 98US-0101743P. |
| PR 22-JUN-1998; | 98US-0090252P. | PR 24-SEP-1998; | 98US-0101922P. |
| PR 22-JUN-1998; | 98US-0090254P. | PR 25-SEP-1998; | 98US-0101786P. |
| PR 24-JUN-1998; | 98US-0090429P. | PR 25-SEP-1998; | 98US-0102207P. |
| PR 24-JUN-1998; | 98US-0090435P. | PR 25-SEP-1998; | 98US-0102240P. |
| PR 24-JUN-1998; | 98US-0090444P. | PR 29-SEP-1998; | 98US-0102330P. |
| PR 24-JUN-1998; | 98US-0090461P. | PR 29-SEP-1998; | 98US-0102331P. |
| PR 24-JUN-1998; | 98US-0090535P. | PR 30-SEP-1998; | 98US-0102487P. |
| PR 24-JUN-1998; | 98US-0090540P. | PR 30-SEP-1998; | 98US-0102570P. |
| PR 25-JUN-1998; | 98US-0090676P. | PR 30-SEP-1998; | 98US-0102571P. |
| PR 25-JUN-1998; | 98US-0090678P. | PR 01-OCT-1998; | 98US-0102684P. |
| PR 25-JUN-1998; | 98US-0090688P. | PR 01-OCT-1998; | 98US-0102687P. |
| PR 25-JUN-1998; | 98US-0090690P. | PR 02-OCT-1998; | 98US-0102965P. |
| PR 25-JUN-1998; | 98US-0090694P. | | |
| PR 25-JUN-1998; | 98US-0090695P. | | |
| PR 25-JUN-1998; | 98US-0090696P. | | |
| PR 26-JUN-1998; | 98US-00105413. | | |
| PR 26-JUN-1998; | 98US-0090863P. | | |
| PR 26-JUN-1998; | 98US-0091010P. | | |
| PR 01-JUL-1998; | 98US-0091359P. | | |
| PR 01-JUL-1998; | 98US-0091544P. | | |
| PR 02-JUL-1998; | 98US-0091478P. | | |
| PR 02-JUL-1998; | 98US-0091486P. | | |
| PR 02-JUL-1998; | 98US-0091626P. | | |
| PR 02-JUL-1998; | 98US-0091628P. | | |
| PR 02-JUL-1998; | 98US-0091632P. | | |
| PR 24-JUL-1998; | 98US-0094006P. | | |
| PR 04-AUG-1998; | 98US-0095282P. | | |
| PR 10-AUG-1998; | 98US-0095998P. | | |
| PR 10-AUG-1998; | 98US-C096012P. | | |
| PR 17-AUG-1998; | 98US-0096757P. | | |
| PR 17-AUG-1998; | 98US-0096766P. | | |
| PR 17-AUG-1998; | 98US-0096867P. | | |
| PR 17-AUG-1998; | 98US-0096891P. | | |
| PR 17-AUG-1998; | 98US-0096897P. | | |
| <hr/> | | | |
| Qy | 16 SAAALPTGQNLFTKDVTVIEGEVATISCVNKSDDSVIQLNPNRQTIYFRDFPLK 75 | Qy | 16 SAAALPTGQNLFTKDVTVIEGEVATISCVNKSDDSVIQLNPNRQTIYFRDFPLK 75 |
| Db | 32 SAAALPTGQNLFTKDVTVIEGEVATISCVNKSDDSVIQLNPNRQTIYFRDFPLK 91 | Db | 32 SAAALPTGQNLFTKDVTVIEGEVATISCVNKSDDSVIQLNPNRQTIYFRDFPLK 91 |
| Qy | 76 DSRFQLNFSSELKVLNVTNVSISDEGRYFCQLYTPDPQESYTTITVLVPPRNLMDIOK 135 | Qy | 76 DSRFQLNFSSELKVLNVTNVSISDEGRYFCQLYTPDPQESYTTITVLVPPRNLMDIOK 135 |
| Db | 92 DSRFQLNFSSELKVLNVTNVSISDEGRYFCQLYTPDPQESYTTITVLVPPRNLMDIOK 151 | Db | 92 DSRFQLNFSSELKVLNVTNVSISDEGRYFCQLYTPDPQESYTTITVLVPPRNLMDIOK 151 |
| Qy | 136 DTAVEGEIEVNCTAMASKPATTIRWFKGN 165 | Qy | 136 DTAVEGEIEVNCTAMASKPATTIRWFKGN 165 |
| Db | 152 DTAVEGEIEVNCTAMASKPATTIRWFKGN 181 | Db | 152 DTAVEGEIEVNCTAMASKPATTIRWFKGN 181 |
| <hr/> | | | |
| Query Match 35.5%; Score 150; DB 6; Length 440; | | | |
| Best Local Similarity 100.0%; Pred. No. 7.7e-135; Indels 0; Gaps 0; | | | |
| Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0; | | | |
| <hr/> | | | |
| RESULT 35 | | | |
| ABU86209 | | | |
| ID ABU86209 standard; protein; 440 AA. | | | |
| XX | | | |
| AC ABU86209; | | | |

```
XX 01-JUL-2003 (first entry)
XX Human secreted/transmembrane protein (PRO) #17.
XX Human; immunogen; secreted protein; transmembrane protein; PRO; tumour;
KW proliferation; differentiation; chondrocyte cells;
KW tumour necrosis factor-alpha; TNF-alpha; blood; gene therapy.
XX Homo sapiens.
XX US2003036146-A1.
XX 20-FEB-2003.
XX 02-JUL-2002; 2002US-00187603.
XX 26-JUN-1998; 98US-00105413.
XX 16-SEP-1998; 98WO-US019330.
XX 07-OCT-1998; 98US-00168978.
XX 07-OCT-1998; 98WO-US021141.
XX 06-NOV-1998; 98US-00187368.
XX 01-DEC-1998; 98WO-US025108.
XX 07-DEC-1998; 98US-00202054.
XX 03-MAR-1999; 99US-00254311.
XX 08-MAR-1999; 99WO-US005028.
XX 14-MAY-1999; 99US-00311832.
XX 14-MAY-1999; 99WO-US010733.
XX 02-JUN-1999; 99WO-US012252.
XX 25-AUG-1999; 99US-00380137.
XX 25-AUG-1999; 99US-00380137.
XX 25-AUG-1999; 99US-00380139.
XX 25-AUG-1999; 99WO-US0380142.
XX 01-SEP-1999; 99WO-US020111.
XX 15-SEP-1999; 99WO-US021090.
XX 18-OCT-1999; 99US-00403297.
XX 12-NOV-1999; 99WO-US0423844.
XX 01-DEC-1999; 99WO-US028301.
XX 02-DEC-1999; 99WO-US028551.
XX 30-DEC-1999; 99WO-US031274.
XX 05-JAN-2000; 2000WO-US000219.
XX 18-FEB-2000; 2000WO-US004341.
XX 18-FEB-2000; 2000WO-US004342.
XX 22-FEB-2000; 2000WO-US004414.
XX 24-FEB-2000; 2000WO-US005004.
XX 01-MAR-2000; 2000WO-US005601.
XX 15-MAR-2000; 2000WO-US005841.
XX 02-MAR-2000; 2000WO-US006884.
XX 17-MAY-2000; 2000WO-US013705.
XX 22-MAY-2000; 2000WO-US014042.
XX 30-MAY-2000; 2000WO-US014941.
XX 02-JUN-2000; 2000WO-US015264.
XX 28-JUL-2000; 2000WO-US020710.
XX 22-AUG-2000; 2000US-00644848.
XX 24-AUG-2000; 2000WO-US023328.
XX 18-SEP-2000; 2000US-00664610.
XX 18-SEP-2000; 2000US-00665350.
XX 08-NOV-2000; 2000US-00709238.
XX 01-DEC-2000; 2000WO-US030952.
XX 20-DEC-2000; 2000WO-US032578.
XX 28-DEC-2000; 2000US-00747259.
XX 28-FEB-2001; 2001WO-US006520.
XX 22-MAR-2001; 2001US-00816744.
XX 10-MAY-2001; 2001US-00854208.
XX 25-MAY-2001; 2001US-00854280.
XX 01-JUN-2001; 2001WO-US016700.
XX 05-JUN-2001; 2001US-00874503.
XX 20-JUN-2001; 2001WO-US019692.
XX 29-JUN-2001; 2001WO-US021066.
XX 03-JUL-2001; 2001WO-US021735.
PR 18-JUL-2001; 2001US-00908827.
PR 30-JUL-2001; 2001US-00918585.
PR 06-AUG-2001; 2001US-00924419.
PR 13-AUG-2001; 2001US-00929404.
PR 16-AUG-2001; 2001US-00931836.
PR 28-AUG-2001; 2001US-00941992.
PR 29-AUG-2001; 2001WO-US027099.
PR 04-SEP-2001; 2001US-00946374.
PR 15-JAN-2002; 2002US-00052586.
XX (GETH ) GENENTECH INC.
XX Baker KP, Chen J, Deenoyers L, Goddard A, Godowski PJ, Gurney AL;
PI Pan J, Smith V, Watanabe CK, Wood WI, Zhang Z;
XX WPI; 2003-332034/31.
XX N-PSDB; ACA73401.
XX Three hundred and five nucleic acids encoding PRO polypeptides, useful in
XX gene therapy, chromosome identification, tissue typing, and for detecting
XX the presence of tumor in a mammal.
XX Claim 11; Fig 34; 707pp; English.
XX The invention relates to three hundred and five nucleic acids encoding
XX PRO polypeptides (secreted and transmembrane), sequences 80% identical to
XX them, or encoding a PRO polypeptide lacking its associated signal peptide
XX or an extracellular domain of the PRO polypeptide, with or lacking its
XX associated signal peptide. Also included are the encoded PRO proteins.
XX PRO expression vectors, host cells transformed with the vector (used to
XX produce PRO proteins), a chimeric molecule comprising the PRO
XX polypeptide fused to a heterologous amino acid sequence, an anti-PRO
XX antibody, a method for stimulating the release of tumor necrosis factor
XX alpha (TNF-alpha) from human blood (by contacting the blood with PRO1079,
XX PRO827, PRO791, PRO1316, PRO1183, PRO1343, PRO1760, PRO1567 or
XX PRO4333), a method for stimulating the proliferation or differentiation
XX of chondrocyte cells by contacting the cells with a PRO6029 polypeptide,
XX a method for detecting the presence of tumor in a mammal and an
XX oligonucleotide probe derived from any of the nucleotide sequences cited
XX above. The PRO polypeptide or anti-PRO antibody is useful for preparing a
XX medicament for treating a condition that is responsive to the PRO
XX polypeptide or anti-PRO antibody. The PRO nucleotide sequences are useful
XX as hybridisation probes in chromosome and gene mapping, or in generating
XX antisense RNA and DNA. PRO nucleic acids are also useful in preparing PRO
XX polypeptides, in assays to identify other proteins or molecules involved
XX in a binding reaction, to generate transgenic animals or knockout
XX animals, which in turn are useful in the development and screening of
XX therapeutically useful reagents, for chromosome identification, and
XX tissue typing. The PRO polypeptides and nucleic acid molecules are also
XX useful for detecting the presence of a tumour in a mammal, stimulating
XX proliferation or differentiation of chondrocyte cells, stimulating the
XX release of tumour necrosis factor-alpha from human blood, in gene
XX therapy, or as molecular weight markers for protein electrophoresis
XX purposes. The anti-PRO antibodies may be used in diagnostic assays for
XX PRO, or for the affinity purification of PRO from recombinant cell
XX culture or natural sources. The present sequence represents a PRO protein
XX Sequence 440 AA;
XX Query Match 35.5%; Score 150; DB 6; Length 440;
XX Best Local Similarity 100.0%; Pred. No. 7.7e-135;
XX Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 16 SAAALPTGQNLFTKDVIEGEVATISCVQNKSDSDSVIQLNPNRQTIYFRDFRPLK 75
DB 32 SAAALPTGQNLFTKDVIEGEVATISCVQNKSDSDSVIQLNPNRQTIYFRDFRPLK 91
QY 76 DSRFQLNFSSELKSLVSLTNVSIISDEGRYFCQLYTPDPQESYTTITVLVPRNLMIDIQK 135
DB 92 DSRFQLNFSSELKSLVSLTNVSIISDEGRYFCQLYTPDPQESYTTITVLVPRNLMIDIQK 151
QY 136 DTAVEGEEIEVNCTANASKPATIRWPKGN 165
|||||
```

Db 152 DTAVEGEEIEVNCNTAMASKPATTIRWPKGN 181

RESULT 36

ABU67422

ID ABU67422 standard; protein; 440 AA.

AC ABU67422;

XX

XX 29-MAY-2003 (first entry)

XX

DE Human secreted/transmembrane protein (PRO) #17.

XX

XX Human; secreted and transmembrane protein; PRO; TNF-alpha;

KW tumour necrosis factor alpha; chondrocyte cell; tumour; gene therapy;

KW tissue typing.

XX

OS Homo sapiens.

XX

XX US2003036162-A1.

XX

XX 20-FEB-2003.

XX

XX 12-JUL-2002; 2002US-00194423.

XX

PR 26-JUN-1998; 98US-00105413.

PR 16-SEP-1998; 98WO-US019330.

PR 07-OCT-1998; 98US-00168978.

PR 07-OCT-1998; 98WO-US021141.

PR 06-NOV-1998; 98US-00187368.

PR 01-DEC-1998; 98WO-US025108.

PR 01-DEC-1998; 98US-00202054.

PR 03-MAR-1999; 99US-00254311.

PR 08-MAR-1999; 99WO-US005028.

PR 14-MAY-1999; 99US-00311832.

PR 14-MAY-1999; 99WO-US010733.

PR 02-JUN-1999; 99WO-US012252.

PR 25-AUG-1999; 99US-00380137.

PR 25-AUG-1999; 99US-00380138.

PR 25-AUG-1999; 99US-00380139.

PR 25-AUG-1999; 99US-00380142.

PR 01-SEP-1999; 99WO-US020111.

PR 15-SEP-1999; 99WO-US021090.

PR 18-OCT-1999; 99US-00403297.

PR 12-NOV-1999; 99US-00423844.

PR 01-DEC-1999; 99WO-US028301.

PR 02-DEC-1999; 99WO-US028551.

PR 30-DEC-1999; 99WO-US031274.

PR 05-JAN-2000; 2000WO-US000219.

PR 18-FEB-2000; 2000WO-US004341.

PR 18-FEB-2000; 2000WO-US004342.

PR 24-FEB-2000; 2000WO-US004414.

PR 24-FEB-2000; 2000WO-US005004.

PR 01-MAR-2000; 2000WO-US005801.

PR 02-MAR-2000; 2000WO-US005841.

PR 15-MAR-2000; 2000WO-US006884.

PR 30-MAR-2000; 2000WO-US008439.

PR 17-MAY-2000; 2000WO-US013705.

PR 22-MAY-2000; 2000WO-US014042.

PR 30-MAY-2000; 2000WO-US014941.

PR 02-JUN-2000; 2000WO-US015264.

PR 28-JUL-2000; 2000WO-US020710.

PR 22-AUG-2000; 2000US-00644848.

PR 24-AUG-2000; 2000WO-US023328.

PR 18-SEP-2000; 2000US-00664510.

PR 18-SEP-2000; 2000US-00665350.

PR 08-NOV-2000; 2000US-00709238.

PR 08-NOV-2000; 2000WO-US030952.

PR 01-DEC-2000; 2000WO-US032678.

PR 20-DEC-2000; 2000US-00747259.

PR 20-DEC-2000; 2000WO-US034956.

PR 22-FEB-2001; 2001WO-US006520.

PR 22-MAR-2001; 2001US-00816744.

PR 10-MAY-2001; 2001US-00854208.

PR 10-MAY-2001; 2001US-00854280.

PR 25-MAY-2001; 2001US-00866028.

PR 01-JUN-2001; 2001WO-US017800.

PR 05-JUN-2001; 2001US-00874503.

PR 20-JUN-2001; 2001WO-US019692.

PR 29-JUN-2001; 2001WO-US021066.

PR 09-JUL-2001; 2001WO-US021735.

PR 18-JUL-2001; 2001US-00908827.

PR 30-JUL-2001; 2001US-00918585.

PR 06-AUG-2001; 2001US-00924419.

PR 13-AUG-2001; 2001US-00929404.

PR 16-AUG-2001; 2001US-00931836.

PR 28-AUG-2001; 2001US-00941992.

PR 29-AUG-2001; 2001WO-US027099.

PR 04-SEP-2001; 2001US-00946374.

PR 15-JAN-2002; 2002US-00052586.

XX

XX (GETH) GENENTECH INC.

XX

XX Baker KP, Chen J, Desnoyers L, Goddard A, Godowski PJ, Gurney AL;

PI Pan J, Smith V, Watanabe CK, Wood WI, Zhang Z;

XX

XX WPI; 2003-332039/31.

DR N-PSDB; ACA05716.

XX

XX New secreted and transmembrane PRO polypeptides and nucleic acids, useful

PT in gene therapy, in chromosome and gene mapping, as chromosome markers,

PT in tissue typing, and in chromosome identification.

XX

XX Claim 11; Fig 34; 706pp; English.

PS

XX The invention discloses human nucleic acids encoding secreted and

CC transmembrane (PRO) polypeptides. Also disclosed is an antibody that

CC specifically binds to the PRO polypeptide, a method for stimulating the

CC release of tumour necrosis factor alpha (TNF-alpha) from human blood by

CC contacting the blood a PRO polypeptide, a method for stimulating the

CC proliferation or differentiation of chondrocyte cells by contacting the

CC cells with a PRO polypeptide, a method for detecting the presence of a

CC tumour in a mammal and an oligonucleotide probe derived from any of the

CC PRO nucleotide sequences. The nucleotide sequences are useful as probes,

CC in chromosome and gene mapping, in generating antisense RNA and DNA, in

CC preparing PRO polypeptides by recombinant techniques and in gene therapy

CC (e.g. for replacement of defective gene). The PRO polypeptides are useful

CC as molecular weight markers for protein electrophoresis purposes, for

CC chromosome identification, as chromosome markers, as therapeutic agents,

CC for stimulating the release of TNF-alpha from human blood, for

CC stimulating the proliferation or differentiation of chondrocytes and

CC detecting the presence of a tumour. The PRO polypeptides and nucleic

CC acids may also be used diagnostically for tissue typing. The sequences

CC presented in ABU67406-ABU67710 are the PRO polypeptides of the invention

XX

XX Sequence 440 AA;

Query Match 35.5%; Score 150; DB 6; Length 440;

Best Local Similarity 100.0%; Pred. No. 7.7e-135;

Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 16 SAAALPTGGQNLFTKDVTVIEGEVATISCVNKSDDSVIQLNPNRQTIYERDRPLK 75

Db 32 SAAALPTGGQNLFTKDVTVIEGEVATISCVNKSDDSVIQLNPNRQTIYERDRPLK 91

QY 76 DSRFQLNFSSELKVSILNVSISDEGRYFCQLYTDPPQESYTTITVLVPPRNLMDIQK 135

Db 92 DSRFQLNFSSELKVSILNVSISDEGRYFCQLYTDPPQESYTTITVLVPPRNLMDIQK 151

QY 136 DTAVEGEEIEVNCNTAMASKPATTIRWPKGN 165

Db 152 DTAVEGEEIEVNCNTAMASKPATTIRWPKGN 181

RESULT 37

ABU60450

```
ID XX ABU80450 standard; protein; 440 AA.
AC XX
XX XX
DT 23-JUN-2003 (first entry)
XX XX
DE Human PRO protein #17.
XX XX
KW Human; tumour; adrenal; lung; colon; breast; prostate; rectal; cervical;
KW liver; PRO; gene therapy.
XX OS
XX OS Homo sapiens.
XX XX
XX XX US2003036137-A1.
XX XX
PD 20-FEB-2003.
XX XX
XX XX
XX XX 27-JUN-2002; 2002US-00184640.
XX XX
XX XX 26-JUN-1998; 98US-00105413.
XX XX 16-SEP-1998; 98WO-US019330.
XX XX 07-OCT-1998; 98US-00168978.
XX XX 07-OCT-1998; 98WO-US021141.
XX XX 06-NOV-1998; 98US-00187368.
XX XX 01-DEC-1998; 98WO-US025108.
XX XX 07-DEC-1998; 98US-00202054.
XX XX 03-MAR-1999; 99US-00254311.
XX XX 08-MAR-1999; 99WO-US005028.
XX XX 14-MAY-1999; 99US-00311832.
XX XX 14-MAY-1999; 99WO-US010733.
XX XX 02-JUN-1999; 99WO-US012252.
XX XX 25-AUG-1999; 99US-00380137.
XX XX 25-AUG-1999; 99US-00380138.
XX XX 25-AUG-1999; 99US-00380139.
XX XX 25-AUG-1999; 99US-00380142.
XX XX 01-SEP-1999; 99WO-US020111.
XX XX 15-SEP-1999; 99WO-US021090.
XX XX 18-OCT-1999; 99US-00403297.
XX XX 12-NOV-1999; 99US-00423844.
XX XX 01-DEC-1999; 99WO-US028301.
XX XX 02-DEC-1999; 99WO-US028551.
XX XX 30-DEC-1999; 99WO-US031274.
XX XX 05-JAN-2000; 2000WO-US000219.
XX XX 18-FEB-2000; 2000WO-US004341.
XX XX 18-FEB-2000; 2000WO-US004342.
XX XX 22-FEB-2000; 2000WO-US004414.
XX XX 24-FEB-2000; 2000WO-US005004.
XX XX 01-MAR-2000; 2000WO-US005601.
XX XX 02-MAR-2000; 2000WO-US005841.
XX XX 15-MAR-2000; 2000WO-US006884.
XX XX 30-MAR-2000; 2000WO-US008439.
XX XX 17-MAY-2000; 2000WO-US013705.
XX XX 22-MAY-2000; 2000WO-US014042.
XX XX 30-MAY-2000; 2000WO-US014941.
XX XX 02-JUN-2000; 2000WO-US015264.
XX XX 28-JUL-2000; 2000WO-US020710.
XX XX 22-AUG-2000; 2000US-00644848.
XX XX 24-AUG-2000; 2000WO-US023328.
XX XX 18-SEP-2000; 2000US-00664610.
XX XX 08-NOV-2000; 2000US-00655350.
XX XX 08-NOV-2000; 2000US-00709238.
XX XX 08-NOV-2000; 2000WO-US030952.
XX XX 01-DEC-2000; 2000WO-US032678.
XX XX 20-DEC-2000; 2000US-00747259.
XX XX 20-DEC-2000; 2000WO-US034956.
XX XX 28-FEB-2001; 2001WO-US006520.
XX XX 22-MAR-2001; 2001US-00816744.
XX XX 10-MAY-2001; 2001US-00854208.
XX XX 25-MAY-2001; 2001US-00854280.
XX XX 01-JUN-2001; 2001US-0086028.
XX XX 01-JUN-2001; 2001WO-US017800.
XX XX 05-JUN-2001; 2001US-00874503.
XX XX 20-JUN-2001; 2001WO-US019692.

PR 29-JUN-2001; 2001WO-US021066.
PR 09-JUL-2001; 2001WO-US021735.
PR 18-JUL-2001; 2001US-00908827.
PR 30-JUL-2001; 2001US-00918585.
PR 06-AUG-2001; 2001US-00924419.
PR 13-AUG-2001; 2001US-00929404.
PR 16-AUG-2001; 2001US-00931836.
PR 28-AUG-2001; 2001US-00941992.
PR 29-AUG-2001; 2001WO-US027099.
PR 04-SEP-2001; 2001US-00946374.
PR 15-JAN-2002; 2002US-00052586.
XX XX
XX XX (GETH ) GENENTECH INC.
XX XX
XX XX Baker KP, Chen J, Desnoyers L, Goddard A, Godowski PJ, Gurney AL;
XX XX Pan J, Smith V, Watanabe CK, Wood WI, Zhang Z;
XX XX
XX XX WPI; 2003-342038/32.
XX XX
XX XX N-PSDB; ACA66550.
XX XX
XX XX Three hundred and five nucleic acids encoding secreted and transmembrane
XX XX PRO polypeptides, useful for the diagnosis, prevention and/or treatment
XX XX of tumors, such as adrenal, lung, colon, breast, prostate, rectal,
XX XX cervical or liver tumors.
XX XX
XX XX Claim 11; Fig 34; 708pp; English.
XX XX
XX XX The invention relates to three hundred and five nucleic acids encoding
XX XX PRO polypeptides (secreted and transmembrane). Methods and compositions
XX XX of the present invention are useful for the diagnosis, prevention and/or
XX XX treatment of tumors, such as adrenal, lung, colon, breast, prostate,
XX XX rectal, cervical or liver tumors. The PRO polypeptides are also useful
XX XX as molecular weight markers, or for chromosome identification. The PRO
XX XX genes are useful as hybridisation probes, or for screening libraries of
XX XX human cDNA, genomic DNA or mRNA. The PRO genes may also be used in gene
XX XX therapy, particularly for replacing a defective gene. The present
XX XX sequence represents a human PRO polypeptide of the invention
XX XX
XX XX Sequence 440 AA;
XX XX
XX XX Query Match 35.5%; Score 150; DB 6; Length 440;
XX XX Best Local Similarity 100.0%; Pred. No. 7,7e-135;
XX XX Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 16 SAAALPTGQNLFTKQVTVEIEGAVATISQCNKSDSVIQLNPNRQTYFRDFRPLK 75
DB 32 SAAALPTGQNLFTKQVTVEIEGAVATISQCNKSDSVIQLNPNRQTYFRDFRPLK 91
QY 76 DSRFQLNFSSELKVSLSLTNVSISDEGRYFCQLYTDPQESYTTITVLVPPRLMIDIQK 135
DB 92 DSRFQLNFSSELKVSLSLTNVSISDEGRYFCQLYTDPQESYTTITVLVPPRLMIDIQK 151
QY 136 DTAVEGEEIEVNCVTAMASKPATTIRWFKGN 165
DB 152 DTAVEGEEIEVNCVTAMASKPATTIRWFKGN 181
XX XX
XX XX RESULT 38
XX XX ABR99368
XX XX ID ABR99368 standard; protein; 440 AA.
XX XX
XX XX ABR99368;
XX XX
XX XX 18-SEP-2003 (first entry)
XX XX
XX XX Human secreted polypeptide PRO355, SEQ ID NO:34.
XX XX
XX XX KW Human; PRO; secreted protein; transmembrane protein;
XX XX extracellular domain; tumour necrosis factor-alpha; TNF-alpha;
XX XX chondrocyte; proliferation; differentiation; cartilage disorder;
XX XX bone disorder; arthritis; sports injury; cancer; tumour; diagnosis;
XX XX adrenal tumour; lung; colon; breast; prostate; kidney; rectum; cervix;
XX XX liver; drug screening; transgenic animal; genetic analysis;
```

KW antiarthritic; vulnery; gene therapy.
XX Homo sapiens.
OS US2003040063-A1.
XX 27-FEB-2003.
XX 26-JUN-2002; 2002US-00183306.
XX 18-SEP-1997; 97US-0059263P.
PR 18-SEP-1997; 97US-0059266P.
PR 17-OCT-1997; 97US-0062250P.
PR 21-OCT-1997; 97US-0063486P.
PR 24-OCT-1997; 97US-0063120P.
PR 24-OCT-1997; 97US-0063121P.
PR 28-OCT-1997; 97US-0063540P.
PR 28-OCT-1997; 97US-0063541P.
PR 28-OCT-1997; 97US-0063544P.
PR 28-OCT-1997; 97US-0063564P.
PR 29-OCT-1997; 97US-0063734P.
PR 31-OCT-1997; 97US-0063870P.
PR 31-OCT-1997; 97US-0064103P.
PR 13-NOV-1997; 97US-0065311P.
PR 21-NOV-1997; 97US-0066120P.
PR 24-NOV-1997; 97US-0066466P.
PR 24-NOV-1997; 97US-0066772P.
PR 11-DEC-1997; 97US-0069335P.
PR 12-DEC-1997; 97US-0069425P.
PR 12-DEC-1997; 97US-0069870P.
PR 18-DEC-1997; 97US-0068017P.
PR 10-MAR-1998; 98US-0077450P.
PR 11-MAR-1998; 98US-0077632P.
PR 11-MAR-1998; 98US-0077649P.
PR 20-MAR-1998; 98US-0078886P.
PR 20-MAR-1998; 98US-0078939P.
PR 27-MAR-1998; 98US-0079664P.
PR 27-MAR-1998; 98US-0079786P.
PR 31-MAR-1998; 98US-0080107P.
PR 31-MAR-1998; 98US-0080194P.
PR 01-APR-1998; 98US-0080327P.
PR 01-APR-1998; 98US-0080333P.
PR 08-APR-1998; 98US-0081049P.
PR 08-APR-1998; 98US-0081070P.
PR 09-APR-1998; 98US-0081195P.
PR 15-APR-1998; 98US-0081838P.
PR 21-APR-1998; 98US-0082568P.
PR 21-APR-1998; 98US-0082569P.
PR 22-APR-1998; 98US-0082704P.
PR 22-APR-1998; 98US-0082797P.
PR 28-APR-1998; 98US-0083322P.
PR 29-APR-1998; 98US-0083495P.
PR 29-APR-1998; 98US-0083496P.
PR 29-APR-1998; 98US-0083499P.
PR 29-APR-1998; 98US-0083559P.
PR 05-MAY-1998; 98US-0084366P.
PR 06-MAY-1998; 98US-0084414P.
PR 07-MAY-1998; 98US-0084639P.
PR 07-MAY-1998; 98US-0084640P.
PR 07-MAY-1998; 98US-0084643P.
PR 15-MAY-1998; 98US-0085579P.
PR 15-MAY-1998; 98US-0085580P.
PR 15-MAY-1998; 98US-0085582P.
PR 15-MAY-1998; 98US-0085700P.
PR 18-MAY-1998; 98US-0086023P.
PR 22-MAY-1998; 98US-0086332P.
PR 22-MAY-1998; 98US-0086486P.
PR 28-MAY-1998; 98US-0087098P.
PR 28-MAY-1998; 98US-0087208P.
PR 02-JUN-1998; 98US-0087609P.
PR 02-JUN-1998; 98US-0087759P.
PR 03-JUN-1998; 98US-0087827P.
PR 04-JUN-1998; 98US-0088025P.
PR 04-JUN-1998; 98US-0088028P.
PR 04-JUN-1998; 98US-0088029P.
PR 04-JUN-1998; 98US-0088033P.
PR 04-JUN-1998; 98US-0088326P.
PR 05-JUN-1998; 98US-0088167P.
PR 05-JUN-1998; 98US-0088202P.
PR 05-JUN-1998; 98US-0088212P.
PR 05-JUN-1998; 98US-0088217P.
PR 09-JUN-1998; 98US-0088655P.
PR 10-JUN-1998; 98US-0088722P.
PR 10-JUN-1998; 98US-0088738P.
PR 10-JUN-1998; 98US-0088740P.
PR 10-JUN-1998; 98US-0088811P.
PR 10-JUN-1998; 98US-0088824P.
PR 10-JUN-1998; 98US-0088825P.
PR 10-JUN-1998; 98US-0088826P.
PR 11-JUN-1998; 98US-0088861P.
PR 11-JUN-1998; 98US-0088863P.
PR 11-JUN-1998; 98US-0088876P.
PR 12-JUN-1998; 98US-0089090P.
PR 12-JUN-1998; 98US-0089105P.
PR 16-JUN-1998; 98US-0089512P.
PR 16-JUN-1998; 98US-0089514P.
PR 17-JUN-1998; 98US-0089538P.
PR 17-JUN-1998; 98US-0089588P.
PR 17-JUN-1998; 98US-0089653P.
PR 18-JUN-1998; 98US-0089908P.
PR 19-JUN-1998; 98US-0089952P.
PR 22-JUN-1998; 98US-0090246P.
PR 22-JUN-1998; 98US-0090252P.
PR 22-JUN-1998; 98US-0090254P.
PR 24-JUN-1998; 98US-0090429P.
PR 24-JUN-1998; 98US-0090435P.
PR 24-JUN-1998; 98US-0090444P.
PR 24-JUN-1998; 98US-0090461P.
PR 24-JUN-1998; 98US-0090535P.
PR 24-JUN-1998; 98US-0090540P.
PR 25-JUN-1998; 98US-0090676P.
PR 25-JUN-1998; 98US-0090678P.
PR 25-JUN-1998; 98US-0090688P.
PR 25-JUN-1998; 98US-0090690P.
PR 25-JUN-1998; 98US-0090694P.
PR 25-JUN-1998; 98US-0090695P.
PR 25-JUN-1998; 98US-0090696P.
PR 26-JUN-1998; 98US-00105413.
PR 26-JUN-1998; 98US-0090862P.
PR 26-JUN-1998; 98US-0090863P.
PR 26-JUN-1998; 98US-0091010P.
PR 01-JUL-1998; 98US-0091359P.
PR 01-JUL-1998; 98US-0091544P.
PR 02-JUL-1998; 98US-0091478P.
PR 02-JUL-1998; 98US-0091486P.
PR 02-JUL-1998; 98US-0091626P.
PR 02-JUL-1998; 98US-0091628P.
PR 02-JUL-1998; 98US-0091632P.
PR 24-JUL-1998; 98US-0094006P.
PR 04-AUG-1998; 98US-0095282P.
PR 10-AUG-1998; 98US-0095598P.
PR 10-AUG-1998; 98US-0096012P.
PR 17-AUG-1998; 98US-0096757P.
PR 17-AUG-1998; 98US-0096766P.
PR 17-AUG-1998; 98US-0096867P.
PR 17-AUG-1998; 98US-0096891P.
PR 17-AUG-1998; 98US-0096897P.
PR 18-AUG-1998; 98US-0096949P.
PR 18-AUG-1998; 98US-0096959P.
PR 26-AUG-1998; 98US-0097022P.
PR 26-AUG-1998; 98US-0097952P.
PR 26-AUG-1998; 98US-0097954P.
PR 26-AUG-1998; 98US-0097955P.
PR 26-AUG-1998; 98US-0097971P.
PR 26-AUG-1998; 98US-0097974P.
PR 26-AUG-1998; 98US-0098014P.


```
PR 01-SEP-1998; 98US-0098716P.
PR 01-SEP-1998; 98US-0098723P.
PR 02-SEP-1998; 98US-0098803P.
PR 02-SEP-1998; 98US-0098821P.
PR 02-SEP-1998; 98US-0098843P.
PR 09-SEP-1998; 98US-0099602P.
PR 10-SEP-1998; 98US-0099741P.
PR 10-SEP-1998; 98US-0099754P.
PR 10-SEP-1998; 98US-0099763P.
PR 10-SEP-1998; 98US-0099812P.
PR 15-SEP-1998; 98US-0100388P.
PR 16-SEP-1998; 98US-0100662P.
PR 16-SEP-1998; 98US-0100664P.
PR 16-SEP-1998; 98US-0101751P.
PR 16-SEP-1998; 98WO-US019330.
PR 17-SEP-1998; 98US-0100683P.
PR 17-SEP-1998; 98US-0100684P.
PR 17-SEP-1998; 98US-0100919P.
PR 17-SEP-1998; 98US-0100930P.
PR 18-SEP-1998; 98US-0100849P.
PR 18-SEP-1998; 98US-0101014P.
PR 18-SEP-1998; 98US-0101068P.
PR 23-SEP-1998; 98US-0101471P.
PR 23-SEP-1998; 98US-0101472P.
PR 23-SEP-1998; 98US-0101475P.
PR 23-SEP-1998; 98US-0101477P.
PR 24-SEP-1998; 98US-0101738P.
PR 24-SEP-1998; 98US-0101739P.
PR 24-SEP-1998; 98US-0101743P.
PR 24-SEP-1998; 98US-0101922P.
PR 25-SEP-1998; 98US-0101786P.
PR 29-SEP-1998; 98US-0102207P.
PR 29-SEP-1998; 98US-0102240P.
PR 29-SEP-1998; 98US-0102330P.
PR 29-SEP-1998; 98US-0102331P.
PR 30-SEP-1998; 98US-0102487P.
PR 30-SEP-1998; 98US-0102570P.
PR 30-SEP-1998; 98US-0102571P.
PR 01-OCT-1998; 98US-0102684P.
PR 01-OCT-1998; 98US-0102687P.

Query Match 35.5%; Score 150; DB 6; Length 440;
Best Local Similarity 100.0%; Pred. No. 7.7e-135;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 16 SAALIPGTGQNLFTKDVTVIEGEVATISQVKNKSDSVIQLNPNRQTIYFRDPLK 75
    |||||
Db 32 SAALIPGTGQNLFTKDVTVIEGEVATISQVKNKSDSVIQLNPNRQTIYFRDPLK 91
    |||||

Qy 76 DSRFQLNFSSELKVLSTNVISIDEGRYFCQLYTDPQESYTTITVLVPPRNLMIDIQ 135
    |||||
Db 92 DSRFQLNFSSELKVLSTNVISIDEGRYFCQLYTDPQESYTTITVLVPPRNLMIDIQ 151
    |||||

Qy 136 DTAVEGEIEVNCCTAMASKPATTIRWFGN 165
    |||||
Db 152 DTAVEGEIEVNCCTAMASKPATTIRWFGN 181
    |||||

RESULT 39
ABR98758
ID ABR98758 standard; protein; 440 AA.
XX AC
XX ABR98758;
XX DT
XX 17-SEP-2003 (first entry)
XX DE
XX Human secreted polypeptide PRO355, SEQ ID NO:34.
XX KW
XX Human; PRO; secreted protein; transmembrane protein;
KW extracellular domain; tumour necrosis factor-alpha; TNF-alpha;
KW chondrocyte; proliferation; differentiation; cartilage disorder;
KW bone disorder; arthritis; sports injury; cancer; diagnosis;
KW adrenal tumour; lung; colon; breast; prostate; kidney; rectum; cervix;
```

```
KW liver; drug screening; transgenic animal; genetic analysis;
KW antiarthritic; vulnery; gene therapy.
OS Homo sapiens.
XX US2003040064-A1.
XX 27-FEB-2003.
XX 26-JUN-2002; 2002US-00183008.
XX 18-SEP-1997; 97US-0059263P.
XX 18-SEP-1997; 97US-0059266P.
XX 17-OCT-1997; 97US-0062250P.
XX 21-OCT-1997; 97US-0063486P.
XX 24-OCT-1997; 97US-0063120P.
XX 24-OCT-1997; 97US-0063121P.
XX 28-OCT-1997; 97US-0063540P.
XX 28-OCT-1997; 97US-0063541P.
XX 28-OCT-1997; 97US-0063544P.
XX 28-OCT-1997; 97US-0063564P.
XX 29-OCT-1997; 97US-0063734P.
XX 31-OCT-1997; 97US-0063870P.
XX 31-OCT-1997; 97US-0064103P.
XX 13-NOV-1997; 97US-0065311P.
XX 21-NOV-1997; 97US-0066120P.
XX 24-NOV-1997; 97US-0066466P.
XX 24-NOV-1997; 97US-0066772P.
XX 11-DEC-1997; 97US-0069335P.
XX 12-DEC-1997; 97US-0069425P.
XX 17-DEC-1997; 97US-0069870P.
XX 18-DEC-1997; 97US-0068017P.
XX 10-MAR-1998; 98US-0077450P.
XX 11-MAR-1998; 98US-0077632P.
XX 11-MAR-1998; 98US-0077649P.
XX 20-MAR-1998; 98US-0078866P.
XX 20-MAR-1998; 98US-0078939P.
XX 27-MAR-1998; 98US-0079664P.
XX 27-MAR-1998; 98US-0079786P.
XX 31-MAR-1998; 98US-0080107P.
XX 31-MAR-1998; 98US-0080194P.
XX 01-APR-1998; 98US-0080327P.
XX 01-APR-1998; 98US-0080333P.
XX 08-APR-1998; 98US-0081049P.
XX 08-APR-1998; 98US-0081070P.
XX 09-APR-1998; 98US-0081195P.
XX 15-APR-1998; 98US-0081838P.
XX 21-APR-1998; 98US-0082568P.
XX 21-APR-1998; 98US-0082569P.
XX 22-APR-1998; 98US-0082704P.
XX 22-APR-1998; 98US-0082797P.
XX 28-APR-1998; 98US-0083322P.
XX 29-APR-1998; 98US-0083495P.
XX 29-APR-1998; 98US-0083496P.
XX 29-APR-1998; 98US-0083499P.
XX 29-APR-1998; 98US-0083559P.
XX 05-MAY-1998; 98US-0084366P.
XX 06-MAY-1998; 98US-0084414P.
XX 07-MAY-1998; 98US-0084639P.
XX 07-MAY-1998; 98US-0084640P.
XX 07-MAY-1998; 98US-0084643P.
XX 15-MAY-1998; 98US-0085579P.
XX 15-MAY-1998; 98US-0085580P.
XX 15-MAY-1998; 98US-0085582P.
XX 15-MAY-1998; 98US-0085700P.
XX 18-MAY-1998; 98US-0086023P.
XX 22-MAY-1998; 98US-0086392P.
XX 22-MAY-1998; 98US-0086486P.
XX 28-MAY-1998; 98US-0087098P.
XX 28-MAY-1998; 98US-0087208P.
XX 02-JUN-1998; 98US-0087609P.
XX 02-JUN-1998; 98US-0087759P.
XX 03-JUN-1998; 98US-0087827P.
```

| | | | | | |
|-----------|--------------|---|--|--------------|---|
| PR | 04-JUN-1998; | 98US-0088025P. | PR | 26-AUG-1998; | 98US-0098014P. |
| PR | 04-JUN-1998; | 98US-0088028P. | PR | 01-SEP-1998; | 98US-0098716P. |
| PR | 04-JUN-1998; | 98US-0088029P. | PR | 01-SEP-1998; | 98US-0098723P. |
| PR | 04-JUN-1998; | 98US-0088033P. | PR | 02-SEP-1998; | 98US-0098803P. |
| PR | 04-JUN-1998; | 98US-0088326P. | PR | 02-SEP-1998; | 98US-0098821P. |
| PR | 03-JUN-1998; | 98US-0088167P. | PR | 02-SEP-1998; | 98US-0098843P. |
| PR | 05-JUN-1998; | 98US-0088202P. | PR | 09-SEP-1998; | 98US-0099602P. |
| PR | 05-JUN-1998; | 98US-0088212P. | PR | 10-SEP-1998; | 98US-0099741P. |
| PR | 05-JUN-1998; | 98US-0088217P. | PR | 10-SEP-1998; | 98US-0099754P. |
| PR | 09-JUN-1998; | 98US-0088655P. | PR | 10-SEP-1998; | 98US-0099763P. |
| PR | 10-JUN-1998; | 98US-0088722P. | PR | 10-SEP-1998; | 98US-0099812P. |
| PR | 10-JUN-1998; | 98US-0088738P. | PR | 15-SEP-1998; | 98US-0100388P. |
| PR | 10-JUN-1998; | 98US-0088740P. | PR | 16-SEP-1998; | 98US-0100662P. |
| PR | 10-JUN-1998; | 98US-0088811P. | PR | 16-SEP-1998; | 98US-0100664P. |
| PR | 10-JUN-1998; | 98US-0088824P. | PR | 16-SEP-1998; | 98US-0101751P. |
| PR | 10-JUN-1998; | 98US-0088825P. | PR | 16-SEP-1998; | 98US-0101751P. |
| PR | 10-JUN-1998; | 98US-0088846P. | PR | 17-SEP-1998; | 98US-0100683P. |
| PR | 11-JUN-1998; | 98US-0088861P. | PR | 17-SEP-1998; | 98US-0100684P. |
| PR | 11-JUN-1998; | 98US-0088863P. | PR | 17-SEP-1998; | 98US-0100919P. |
| PR | 11-JUN-1998; | 98US-0088876P. | PR | 17-SEP-1998; | 98US-0100930P. |
| PR | 12-JUN-1998; | 98US-0089090P. | PR | 18-SEP-1998; | 98US-0100849P. |
| PR | 12-JUN-1998; | 98US-0089105P. | PR | 18-SEP-1998; | 98US-0101014P. |
| PR | 16-JUN-1998; | 98US-0089512P. | PR | 18-SEP-1998; | 98US-0101068P. |
| PR | 16-JUN-1998; | 98US-0089514P. | PR | 23-SEP-1998; | 98US-0101471P. |
| PR | 17-JUN-1998; | 98US-0089538P. | PR | 23-SEP-1998; | 98US-0101472P. |
| PR | 17-JUN-1998; | 98US-0089598P. | PR | 23-SEP-1998; | 98US-0101475P. |
| PR | 17-JUN-1998; | 98US-0089653P. | PR | 23-SEP-1998; | 98US-0101477P. |
| PR | 18-JUN-1998; | 98US-0089908P. | PR | 24-SEP-1998; | 98US-0101738P. |
| PR | 19-JUN-1998; | 98US-0089922P. | PR | 24-SEP-1998; | 98US-0101739P. |
| PR | 22-JUN-1998; | 98US-0090246P. | PR | 24-SEP-1998; | 98US-0101743P. |
| PR | 22-JUN-1998; | 98US-0090252P. | PR | 24-SEP-1998; | 98US-0101922P. |
| PR | 22-JUN-1998; | 98US-0090254P. | PR | 25-SEP-1998; | 98US-0101786P. |
| PR | 24-JUN-1998; | 98US-0090429P. | PR | 25-SEP-1998; | 98US-0102207P. |
| PR | 24-JUN-1998; | 98US-0090435P. | PR | 29-SEP-1998; | 98US-0102240P. |
| PR | 24-JUN-1998; | 98US-0090444P. | PR | 29-SEP-1998; | 98US-0102330P. |
| PR | 24-JUN-1998; | 98US-0090461P. | PR | 29-SEP-1998; | 98US-0102331P. |
| PR | 24-JUN-1998; | 98US-0090535P. | PR | 30-SEP-1998; | 98US-0102487P. |
| PR | 24-JUN-1998; | 98US-0090540P. | PR | 30-SEP-1998; | 98US-0102570P. |
| PR | 25-JUN-1998; | 98US-0090676P. | PR | 30-SEP-1998; | 98US-0102571P. |
| PR | 25-JUN-1998; | 98US-0090678P. | PR | 01-OCT-1998; | 98US-0102684P. |
| PR | 25-JUN-1998; | 98US-0090688P. | PR | 01-OCT-1998; | 98US-0102687P. |
| PR | 25-JUN-1998; | 98US-0090690P. | | | |
| PR | 25-JUN-1998; | 98US-0090694P. | | | |
| PR | 25-JUN-1998; | 98US-0090695P. | | | |
| PR | 25-JUN-1998; | 98US-0090696P. | | | |
| PR | 26-JUN-1998; | 98US-0090696P. | | | |
| PR | 26-JUN-1998; | 98US-0090821P. | | | |
| PR | 26-JUN-1998; | 98US-0090863P. | | | |
| PR | 01-JUL-1998; | 98US-0091010P. | | | |
| PR | 01-JUL-1998; | 98US-0091359P. | | | |
| PR | 02-JUL-1998; | 98US-0091478P. | | | |
| PR | 02-JUL-1998; | 98US-0091486P. | | | |
| PR | 02-JUL-1998; | 98US-0091626P. | | | |
| PR | 02-JUL-1998; | 98US-0091628P. | | | |
| PR | 02-JUL-1998; | 98US-0091632P. | | | |
| PR | 24-JUL-1998; | 98US-0094006P. | | | |
| PR | 04-AUG-1998; | 98US-0095282P. | | | |
| PR | 10-AUG-1998; | 98US-0095998P. | | | |
| PR | 10-AUG-1998; | 98US-0096012P. | | | |
| PR | 17-AUG-1998; | 98US-0096757P. | | | |
| PR | 17-AUG-1998; | 98US-0096766P. | | | |
| PR | 17-AUG-1998; | 98US-0096857P. | | | |
| PR | 17-AUG-1998; | 98US-0096891P. | | | |
| PR | 17-AUG-1998; | 98US-0096897P. | | | |
| PR | 18-AUG-1998; | 98US-0096949P. | | | |
| PR | 18-AUG-1998; | 98US-0096959P. | | | |
| PR | 18-AUG-1998; | 98US-0097022P. | | | |
| PR | 26-AUG-1998; | 98US-0097952P. | | | |
| PR | 26-AUG-1998; | 98US-0097954P. | | | |
| PR | 26-AUG-1998; | 98US-0097955P. | | | |
| PR | 26-AUG-1998; | 98US-0097971P. | | | |
| PR | 26-AUG-1998; | 98US-0097974P. | | | |
| | | | Query Match 35.5%; Score 150; DB 6; Length 440; | | |
| | | | Best Local Similarity 100.0%; Pred. No. 7,7e-135; | | |
| | | | Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0; | | |
| Qy | 16 | SAAALPTGGQNLFTKDVTVIEGEVATIS | Qy | 16 | SAAALPTGGQNLFTKDVTVIEGEVATIS |
| Db | 32 | SAAALPTGGQNLFTKDVTVIEGEVATIS | Db | 32 | SAAALPTGGQNLFTKDVTVIEGEVATIS |
| Qy | 76 | DSRFQLNFSSSELKVLNVSISDEGRYFCOLYTPPOESYTTITVLVPPRLMIDIQK | Qy | 76 | DSRFQLNFSSSELKVLNVSISDEGRYFCOLYTPPOESYTTITVLVPPRLMIDIQK |
| Db | 92 | DSRFQLNFSSSELKVLNVSISDEGRYFCOLYTPPOESYTTITVLVPPRLMIDIQK | Db | 92 | DSRFQLNFSSSELKVLNVSISDEGRYFCOLYTPPOESYTTITVLVPPRLMIDIQK |
| Qy | 136 | DTAVEGEEIEVNCTAMASKPATIRWFKGN | Qy | 136 | DTAVEGEEIEVNCTAMASKPATIRWFKGN |
| Db | 152 | DTAVEGEEIEVNCTAMASKPATIRWFKGN | Db | 152 | DTAVEGEEIEVNCTAMASKPATIRWFKGN |
| RESULT 40 | | | ABO16281 | | |
| ABO16281 | | | ID ABO16281 standard; protein; 440 AA. | | |
| XX | | | AC ABO16281; | | |
| XX | | | XX | | |
| XX | | | 25-AUG-2003 (first entry) | | |
| XX | | | Human secreted/transmembrane protein (PRO) #17. | | |
| XX | | | Human; secreted and transmembrane protein; PRO; TNF-alpha; | | |
| KW | | | tumour necrosis factor alpha; chondrocyte cell; tumour; gene therapy; | | |
| KW | | | tissue typing; adrenal tumour; lung tumour; colon tumour; breast tumour; | | |
| KW | | | prostate tumour; rectal tumour; cervical tumour; liver tumour. | | |

XX OS Homo sapiens.
XX PN US2003027267-A1.
XX PD 06-FEB-2003.
XX PP 19-JUN-2002; 2002US-00175739.
XX PR 18-SEP-1997; 97US-00592263P.
PR 18-SEP-1997; 97US-00592266P.
PR 17-OCT-1997; 97US-00622250P.
PR 21-OCT-1997; 97US-0063486P.
PR 24-OCT-1997; 97US-00631120P.
PR 24-OCT-1997; 97US-00631121P.
PR 28-OCT-1997; 97US-0063540P.
PR 28-OCT-1997; 97US-0063541P.
PR 28-OCT-1997; 97US-0063544P.
PR 28-OCT-1997; 97US-0063564P.
PR 29-OCT-1997; 97US-0063734P.
PR 31-OCT-1997; 97US-0063870P.
PR 31-OCT-1997; 97US-0064103P.
PR 13-NOV-1997; 97US-0065311P.
PR 21-NOV-1997; 97US-0066120P.
PR 24-NOV-1997; 97US-0066466P.
PR 24-NOV-1997; 97US-0066772P.
PR 11-DEC-1997; 97US-0069335P.
PR 12-DEC-1997; 97US-0069425P.
PR 17-DEC-1997; 97US-0069870P.
PR 18-DEC-1997; 97US-0068017P.
PR 10-MAR-1998; 98US-0077450P.
PR 11-MAR-1998; 98US-0077632P.
PR 11-MAR-1998; 98US-0077649P.
PR 20-MAR-1998; 98US-0078886P.
PR 27-MAR-1998; 98US-0078939P.
PR 27-MAR-1998; 98US-0079664P.
PR 27-MAR-1998; 98US-0079786P.
PR 31-MAR-1998; 98US-0080107P.
PR 31-MAR-1998; 98US-0080194P.
PR 01-APR-1998; 98US-0080327P.
PR 01-APR-1998; 98US-0080333P.
PR 08-APR-1998; 98US-0081049P.
PR 08-APR-1998; 98US-0081070P.
PR 09-APR-1998; 98US-0081195P.
PR 15-APR-1998; 98US-0081838P.
PR 21-APR-1998; 98US-0082568P.
PR 21-APR-1998; 98US-0082569P.
PR 22-APR-1998; 98US-0082704P.
PR 22-APR-1998; 98US-0082777P.
PR 28-APR-1998; 98US-0083322P.
PR 29-APR-1998; 98US-0083495P.
PR 29-APR-1998; 98US-0083496P.
PR 29-APR-1998; 98US-0083499P.
PR 29-APR-1998; 98US-0083559P.
PR 05-MAY-1998; 98US-0084366P.
PR 06-MAY-1998; 98US-0084414P.
PR 07-MAY-1998; 98US-0084639P.
PR 07-MAY-1998; 98US-0084640P.
PR 07-MAY-1998; 98US-0084643P.
PR 15-MAY-1998; 98US-0085579P.
PR 15-MAY-1998; 98US-0085580P.
PR 15-MAY-1998; 98US-0085582P.
PR 15-MAY-1998; 98US-0085700P.
PR 18-MAY-1998; 98US-0086023P.
PR 22-MAY-1998; 98US-0086393P.
PR 22-MAY-1998; 98US-0086486P.
PR 28-MAY-1998; 98US-0087098P.
PR 28-MAY-1998; 98US-0087208P.
PR 02-JUN-1998; 98US-0087609P.
PR 02-JUN-1998; 98US-0087759P.
PR 03-JUN-1998; 98US-0087827P.
PR 04-JUN-1998; 98US-0088025P.
PR 04-JUN-1998; 98US-0088028P.
PR 04-JUN-1998; 98US-0088029P.
PR 04-JUN-1998; 98US-0088033P.
PR 04-JUN-1998; 98US-00880326P.
PR 05-JUN-1998; 98US-0088167P.
PR 05-JUN-1998; 98US-0088202P.
PR 05-JUN-1998; 98US-0088212P.
PR 05-JUN-1998; 98US-0088217P.
PR 09-JUN-1998; 98US-0088555P.
PR 10-JUN-1998; 98US-0088722P.
PR 10-JUN-1998; 98US-0088738P.
PR 10-JUN-1998; 98US-0088740P.
PR 10-JUN-1998; 98US-0088811P.
PR 10-JUN-1998; 98US-0088824P.
PR 10-JUN-1998; 98US-0088825P.
PR 10-JUN-1998; 98US-0088826P.
PR 11-JUN-1998; 98US-0088861P.
PR 11-JUN-1998; 98US-0088863P.
PR 12-JUN-1998; 98US-0088876P.
PR 12-JUN-1998; 98US-0089090P.
PR 12-JUN-1998; 98US-0089105P.
PR 16-JUN-1998; 98US-0089512P.
PR 16-JUN-1998; 98US-0089514P.
PR 17-JUN-1998; 98US-0089538P.
PR 17-JUN-1998; 98US-0089598P.
PR 17-JUN-1998; 98US-008953P.
PR 18-JUN-1998; 98US-0089908P.
PR 19-JUN-1998; 98US-0089952P.
PR 22-JUN-1998; 98US-0090246P.
PR 22-JUN-1998; 98US-0090252P.
PR 22-JUN-1998; 98US-0090254P.
PR 24-JUN-1998; 98US-0090429P.
PR 24-JUN-1998; 98US-0090435P.
PR 24-JUN-1998; 98US-0090444P.
PR 24-JUN-1998; 98US-0090461P.
PR 24-JUN-1998; 98US-0090535P.
PR 25-JUN-1998; 98US-0090676P.
PR 25-JUN-1998; 98US-0090678P.
PR 25-JUN-1998; 98US-0090688P.
PR 25-JUN-1998; 98US-0090690P.
PR 25-JUN-1998; 98US-0090694P.
PR 25-JUN-1998; 98US-0090695P.
PR 25-JUN-1998; 98US-0090696P.
PR 26-JUN-1998; 98US-00105413.
PR 26-JUN-1998; 98US-0090862P.
PR 26-JUN-1998; 98US-0090863P.
PR 26-JUN-1998; 98US-0091010P.
PR 01-JUL-1998; 98US-0091359P.
PR 01-JUL-1998; 98US-0091544P.
PR 02-JUL-1998; 98US-0091478P.
PR 02-JUL-1998; 98US-0091486P.
PR 02-JUL-1998; 98US-0091626P.
PR 02-JUL-1998; 98US-0091628P.
PR 02-JUL-1998; 98US-0091632P.
PR 24-JUL-1998; 98US-0094006P.
PR 04-AUG-1998; 98US-0095282P.
PR 10-AUG-1998; 98US-0095998P.
PR 10-AUG-1998; 98US-0096012P.
PR 17-AUG-1998; 98US-0096757P.
PR 17-AUG-1998; 98US-0096766P.
PR 17-AUG-1998; 98US-0096867P.
PR 17-AUG-1998; 98US-0096891P.
PR 17-AUG-1998; 98US-0096897P.
PR 18-AUG-1998; 98US-0096949P.
PR 18-AUG-1998; 98US-0096959P.
PR 18-AUG-1998; 98US-0097022P.
PR 26-AUG-1998; 98US-0097954P.
PR 26-AUG-1998; 98US-0097955P.
PR 26-AUG-1998; 98US-0097971P.
PR 26-AUG-1998; 98US-0097974P.
PR 26-AUG-1998; 98US-0098014P.
PR 01-SEP-1998; 98US-0098716P.


```
PR 02-JUN-1998; 98US-0087759P.
PR 03-JUN-1998; 98US-0087827P.
PR 04-JUN-1998; 98US-0088035P.
PR 04-JUN-1998; 98US-0088028P.
PR 04-JUN-1998; 98US-0088029P.
PR 04-JUN-1998; 98US-0088033P.
PR 04-JUN-1998; 98US-0088326P.
PR 05-JUN-1998; 98US-0088167P.
PR 05-JUN-1998; 98US-0088202P.
PR 05-JUN-1998; 98US-0088212P.
PR 05-JUN-1998; 98US-0088217P.
PR 09-JUN-1998; 98US-0088655P.
PR 10-JUN-1998; 98US-0088722P.
PR 10-JUN-1998; 98US-0088738P.
PR 10-JUN-1998; 98US-0088740P.
PR 10-JUN-1998; 98US-0088811P.
PR 10-JUN-1998; 98US-0088824P.
PR 10-JUN-1998; 98US-0088825P.
PR 10-JUN-1998; 98US-0088826P.
PR 11-JUN-1998; 98US-0088861P.
PR 11-JUN-1998; 98US-0088863P.
PR 11-JUN-1998; 98US-0088876P.
PR 12-JUN-1998; 98US-0089090P.
PR 12-JUN-1998; 98US-009105P.
PR 16-JUN-1998; 98US-0089512P.
PR 16-JUN-1998; 98US-0089514P.
PR 17-JUN-1998; 98US-0089538P.
PR 17-JUN-1998; 98US-0089598P.
PR 17-JUN-1998; 98US-0089653P.
PR 18-JUN-1998; 98US-0089908P.
PR 19-JUN-1998; 98US-0089952P.
PR 22-JUN-1998; 98US-0090246P.
PR 22-JUN-1998; 98US-0090252P.
PR 22-JUN-1998; 98US-0090254P.
PR 24-JUN-1998; 98US-0090439P.
PR 24-JUN-1998; 98US-0090435P.
PR 24-JUN-1998; 98US-0090444P.
PR 24-JUN-1998; 98US-0090461P.
PR 24-JUN-1998; 98US-0090535P.
PR 24-JUN-1998; 98US-0090540P.
PR 25-JUN-1998; 98US-0090676P.
PR 25-JUN-1998; 98US-0090678P.
PR 25-JUN-1998; 98US-0090688P.
PR 25-JUN-1998; 98US-0090690P.
PR 25-JUN-1998; 98US-0090694P.
PR 25-JUN-1998; 98US-0090695P.
PR 25-JUN-1998; 98US-0090696P.
PR 26-JUN-1998; 98US-00105413.
PR 26-JUN-1998; 98US-0090862P.
PR 26-JUN-1998; 98US-0090863P.
PR 26-JUN-1998; 98US-0091010P.
PR 01-JUL-1998; 98US-0091359P.
PR 01-JUL-1998; 98US-0091544P.
PR 02-JUL-1998; 98US-0091478P.
PR 02-JUL-1998; 98US-0091486P.
PR 02-JUL-1998; 98US-0091626P.
PR 02-JUL-1998; 98US-0091628P.
PR 02-JUL-1998; 98US-0091632P.
PR 24-JUL-1998; 98US-0094006P.
PR 24-AUG-1998; 98US-0095282P.
PR 10-AUG-1998; 98US-0095998P.
PR 10-AUG-1998; 98US-0096012P.
PR 17-AUG-1998; 98US-0096757P.
PR 17-AUG-1998; 98US-0096766P.
PR 17-AUG-1998; 98US-0096867P.
PR 17-AUG-1998; 98US-0096891P.
PR 17-AUG-1998; 98US-0096897P.
PR 18-AUG-1998; 98US-0096949P.
PR 18-AUG-1998; 98US-0096959P.
PR 26-AUG-1998; 98US-0097022P.
PR 26-AUG-1998; 98US-0097952P.
PR 26-AUG-1998; 98US-0097954P.
PR 26-AUG-1998; 98US-0097955P.

PR 26-AUG-1998; 98US-0097971P.
PR 26-AUG-1998; 98US-0097974P.
PR 26-AUG-1998; 98US-0098014P.
PR 01-SEP-1998; 98US-0098716P.
PR 01-SEP-1998; 98US-0098723P.
PR 02-SEP-1998; 98US-0098803P.
PR 02-SEP-1998; 98US-0098821P.
PR 02-SEP-1998; 98US-0098843P.
PR 09-SEP-1998; 98US-0099602P.
PR 10-SEP-1998; 98US-0099741P.
PR 10-SEP-1998; 98US-0099754P.
PR 10-SEP-1998; 98US-0099763P.
PR 10-SEP-1998; 98US-0099812P.
PR 15-SEP-1998; 98US-0100388P.
PR 16-SEP-1998; 98US-0100662P.
PR 16-SEP-1998; 98US-0100664P.
PR 16-SEP-1998; 98US-0101751P.
PR 16-SEP-1998; 98WO-US019330.
PR 17-SEP-1998; 98US-0100683P.
PR 17-SEP-1998; 98US-0100684P.
PR 17-SEP-1998; 98US-0100919P.
PR 17-SEP-1998; 98US-0100930P.
PR 18-SEP-1998; 98US-0100849P.
PR 18-SEP-1998; 98US-0101014P.
PR 18-SEP-1998; 98US-0101058P.
PR 23-SEP-1998; 98US-0101471P.
PR 23-SEP-1998; 98US-0101472P.
PR 23-SEP-1998; 98US-0101475P.
PR 23-SEP-1998; 98US-0101477P.
PR 24-SEP-1998; 98US-0101738P.
PR 24-SEP-1998; 98US-0101739P.
PR 24-SEP-1998; 98US-0101743P.
PR 25-SEP-1998; 98US-0101922P.
PR 25-SEP-1998; 98US-0101786P.
PR 29-SEP-1998; 98US-0102207P.
PR 29-SEP-1998; 98US-0102240P.
PR 29-SEP-1998; 98US-0102330P.
PR 29-SEP-1998; 98US-0102331P.
PR 30-SEP-1998; 98US-0102487P.
PR 30-SEP-1998; 98US-0102570P.
PR 30-SEP-1998; 98US-0102571P.
PR 01-OCT-1998; 98US-0102684P.
PR 01-OCT-1998; 98US-0102687P.

Query Match 35.5%; Score 150; DB 6; Length 440;
Best Local Similarity 100.0%; Pred. No. 7.7e-135;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 16 SAAALPTGQNLFTKDVTVIEGEVATISCOVNKSDSVIQLNPNROTIFYRDFRPLK 75
Db 32 SAAALPTGQNLFTKDVTVIEGEVATISCOVNKSDSVIQLNPNROTIFYRDFRPLK 91
Qy 76 DSRFQLNFSSELKVLSTNVISDEGRYFCQLYTDPQESYTTITVLVPPRNLMIDIQK 135
Db 92 DSRFQLNFSSELKVLSTNVISDEGRYFCQLYTDPQESYTTITVLVPPRNLMIDIQK 151
Qy 136 DTAVEGEEIEVNCTAMASKPATTIRWFKGN 165
Db 152 DTAVEGEEIEVNCTAMASKPATTIRWFKGN 181

RESULT 42
ABO18822
ID ABO18822 standard; protein; 440 AA.
XX ABO18822;
AC
XX
XX 30-AUG-2003 (first entry)
DE Human secreted/transmembrane protein (PRO) #17.
XX Human; secreted and transmembrane protein; PRO; TNF-alpha;
KW tumour necrosis factor alpha; chondrocyte cell; tumour; gene therapy;
```

KW tissue typing; adrenal tumour; lung tumour; colon tumour; breast tumour;
KW prostate tumour; rectal tumour; cervical tumour; liver tumour.
XX Homo sapiens.
OS
XX
XX
PN US2003044925-A1.
XX
PD 06-MAR-2003.
XX
XX 25-JUN-2002; 2002US-00180560.
XX
PR 18-SEP-1997; 97US-0059263P.
PR 18-SEP-1997; 97US-0059266P.
PR 17-OCT-1997; 97US-0062250P.
PR 21-OCT-1997; 97US-0063486P.
PR 24-OCT-1997; 97US-0063120P.
PR 24-OCT-1997; 97US-0063121P.
PR 28-OCT-1997; 97US-0063540P.
PR 28-OCT-1997; 97US-0063541P.
PR 28-OCT-1997; 97US-0063544P.
PR 28-OCT-1997; 97US-0063564P.
PR 29-OCT-1997; 97US-0063734P.
PR 31-OCT-1997; 97US-0063870P.
PR 31-OCT-1997; 97US-0064103P.
PR 13-NOV-1997; 97US-0065311P.
PR 21-NOV-1997; 97US-0066120P.
PR 24-NOV-1997; 97US-0066466P.
PR 24-NOV-1997; 97US-0066772P.
PR 11-DEC-1997; 97US-0069335P.
PR 12-DEC-1997; 97US-0069425P.
PR 17-DEC-1997; 97US-0069870P.
PR 18-DEC-1997; 97US-0068017P.
PR 10-MAR-1998; 98US-0077450P.
PR 11-MAR-1998; 98US-0077632P.
PR 11-MAR-1998; 98US-0077649P.
PR 20-MAR-1998; 98US-0078886P.
PR 20-MAR-1998; 98US-0078939P.
PR 27-MAR-1998; 98US-0079664P.
PR 27-MAR-1998; 98US-0079786P.
PR 31-MAR-1998; 98US-0080107P.
PR 31-MAR-1998; 98US-0080194P.
PR 01-APR-1998; 98US-0080327P.
PR 01-APR-1998; 98US-0080333P.
PR 08-APR-1998; 98US-0081049P.
PR 08-APR-1998; 98US-0081070P.
PR 09-APR-1998; 98US-0081195P.
PR 15-APR-1998; 98US-0081838P.
PR 21-APR-1998; 98US-0082588P.
PR 21-APR-1998; 98US-0082569P.
PR 22-APR-1998; 98US-0082704P.
PR 22-APR-1998; 98US-0082797P.
PR 28-APR-1998; 98US-0083322P.
PR 29-APR-1998; 98US-0083495P.
PR 29-APR-1998; 98US-0083496P.
PR 29-APR-1998; 98US-0083499P.
PR 29-APR-1998; 98US-0083559P.
PR 05-MAY-1998; 98US-0084366P.
PR 06-MAY-1998; 98US-0084414P.
PR 07-MAY-1998; 98US-0084639P.
PR 07-MAY-1998; 98US-0084640P.
PR 07-MAY-1998; 98US-0084643P.
PR 15-MAY-1998; 98US-0085579P.
PR 15-MAY-1998; 98US-0085580P.
PR 15-MAY-1998; 98US-0085582P.
PR 15-MAY-1998; 98US-0085700P.
PR 18-MAY-1998; 98US-0086023P.
PR 22-MAY-1998; 98US-0086392P.
PR 22-MAY-1998; 98US-0086486P.
PR 28-MAY-1998; 98US-0087098P.
PR 28-MAY-1998; 98US-0087208P.
PR 02-JUN-1998; 98US-0087609P.
PR 03-JUN-1998; 98US-0087759P.
PR 03-JUN-1998; 98US-0087827P.
PR 04-JUN-1998; 98US-0088025P.
PR 04-JUN-1998; 98US-0088028P.
PR 04-JUN-1998; 98US-0088029P.
PR 04-JUN-1998; 98US-0088033P.
PR 04-JUN-1998; 98US-0088326P.
PR 05-JUN-1998; 98US-0088167P.
PR 05-JUN-1998; 98US-0088202P.
PR 05-JUN-1998; 98US-0088212P.
PR 05-JUN-1998; 98US-0088217P.
PR 05-JUN-1998; 98US-0088655P.
PR 10-JUN-1998; 98US-0088722P.
PR 10-JUN-1998; 98US-0088738P.
PR 10-JUN-1998; 98US-0088740P.
PR 10-JUN-1998; 98US-0088811P.
PR 10-JUN-1998; 98US-0088824P.
PR 10-JUN-1998; 98US-0088825P.
PR 10-JUN-1998; 98US-0088826P.
PR 11-JUN-1998; 98US-0088861P.
PR 11-JUN-1998; 98US-0088863P.
PR 11-JUN-1998; 98US-0088876P.
PR 12-JUN-1998; 98US-0089090P.
PR 12-JUN-1998; 98US-0089105P.
PR 16-JUN-1998; 98US-0089512P.
PR 16-JUN-1998; 98US-0089514P.
PR 17-JUN-1998; 98US-0089538P.
PR 17-JUN-1998; 98US-0089598P.
PR 17-JUN-1998; 98US-0089653P.
PR 18-JUN-1998; 98US-0089908P.
PR 18-JUN-1998; 98US-0089952P.
PR 22-JUN-1998; 98US-0090246P.
PR 22-JUN-1998; 98US-0090252P.
PR 24-JUN-1998; 98US-0090429P.
PR 24-JUN-1998; 98US-0090435P.
PR 24-JUN-1998; 98US-0090444P.
PR 24-JUN-1998; 98US-0090461P.
PR 24-JUN-1998; 98US-0090535P.
PR 24-JUN-1998; 98US-0090540P.
PR 25-JUN-1998; 98US-0090676P.
PR 25-JUN-1998; 98US-0090678P.
PR 25-JUN-1998; 98US-0090688P.
PR 25-JUN-1998; 98US-0090690P.
PR 25-JUN-1998; 98US-0090694P.
PR 25-JUN-1998; 98US-0090695P.
PR 26-JUN-1998; 98US-0090696P.
PR 26-JUN-1998; 98US-00105413.
PR 26-JUN-1998; 98US-0090862P.
PR 26-JUN-1998; 98US-0090863P.
PR 26-JUN-1998; 98US-0091010P.
PR 01-JUL-1998; 98US-0091359P.
PR 01-JUL-1998; 98US-0091544P.
PR 02-JUL-1998; 98US-0091478P.
PR 02-JUL-1998; 98US-0091486P.
PR 02-JUL-1998; 98US-0091626P.
PR 02-JUL-1998; 98US-0091628P.
PR 02-JUL-1998; 98US-0091632P.
PR 04-AUG-1998; 98US-0094006P.
PR 04-AUG-1998; 98US-0095282P.
PR 10-AUG-1998; 98US-0095998P.
PR 10-AUG-1998; 98US-0096012P.
PR 10-AUG-1998; 98US-0096757P.
PR 17-AUG-1998; 98US-0096766P.
PR 17-AUG-1998; 98US-0096867P.
PR 17-AUG-1998; 98US-0096891P.
PR 17-AUG-1998; 98US-0096897P.
PR 18-AUG-1998; 98US-0096949P.
PR 18-AUG-1998; 98US-0096959P.
PR 18-AUG-1998; 98US-0097022P.
PR 26-AUG-1998; 98US-0097952P.
PR 26-AUG-1998; 98US-0097954P.
PR 26-AUG-1998; 98US-0097955P.
PR 26-AUG-1998; 98US-0097971P.
PR 26-AUG-1998; 98US-0097974P.

```
PR 26-AUG-1998; 98US-0098014P.
PR 01-SEP-1998; 98US-0098716P.
PR 01-SEP-1998; 98US-0098723P.
PR 02-SEP-1998; 98US-0098803P.
PR 02-SEP-1998; 98US-0098821P.
PR 02-SEP-1998; 98US-0098843P.
PR 09-SEP-1998; 98US-0099602P.
PR 10-SEP-1998; 98US-0099741P.
PR 10-SEP-1998; 98US-0099754P.
PR 10-SEP-1998; 98US-0099763P.
PR 15-SEP-1998; 98US-0099812P.
PR 16-SEP-1998; 98US-0100388P.
PR 16-SEP-1998; 98US-0100662P.
PR 16-SEP-1998; 98US-0100664P.
PR 16-SEP-1998; 98US-0101751P.
PR 16-SEP-1998; 98US-0101751P.
PR 16-SEP-1998; 98US-0101751P.
PR 17-SEP-1998; 98US-0100683P.
PR 17-SEP-1998; 98US-0100684P.
PR 17-SEP-1998; 98US-0100919P.
PR 17-SEP-1998; 98US-0100930P.
PR 18-SEP-1998; 98US-0100849P.
PR 18-SEP-1998; 98US-0101014P.
PR 18-SEP-1998; 98US-0101068P.
PR 23-SEP-1998; 98US-0101471P.
PR 23-SEP-1998; 98US-0101472P.
PR 23-SEP-1998; 98US-0101475P.
PR 23-SEP-1998; 98US-0101477P.
PR 24-SEP-1998; 98US-0101738P.
PR 24-SEP-1998; 98US-0101739P.
PR 24-SEP-1998; 98US-0101743P.
PR 24-SEP-1998; 98US-0101922P.
PR 25-SEP-1998; 98US-0101786P.
PR 29-SEP-1998; 98US-0102207P.
PR 29-SEP-1998; 98US-0102240P.
PR 29-SEP-1998; 98US-0102330P.
PR 29-SEP-1998; 98US-0102331P.
PR 30-SEP-1998; 98US-0102487P.
PR 30-SEP-1998; 98US-0102570P.
PR 30-SEP-1998; 98US-0102571P.
PR 01-OCT-1998; 98US-0102684P.
PR 01-OCT-1998; 98US-0102687P.
PR 02-OCT-1998; 98US-0102965P.
PR 06-OCT-1998; 98US-0103258P.
PR 06-OCT-1998; 98US-0103449P.

Query Match 35.5%; Score 150; DB 6; Length 440;
Best Local Similarity 100.0%; Pred. No. 7.7e-135;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 16 SAALIPITGDCQNLFTKDVTVIEGEVATISQVKNKSDSDSVTLQLLNPNRQTIYFRDPRPLK 75
Db 32 SAALIPITGDCQNLFTKDVTVIEGEVATISQVKNKSDSDSVTLQLLNPNRQTIYFRDPRPLK 91

Qy 76 DSRFOLLNFSSELKSLVSTNVSISDEGRYFCQLYTDPQESYTTITVLVPPRNLMIDIQK 135
Db 92 DSRFOLLNFSSELKSLVSTNVSISDEGRYFCQLYTDPQESYTTITVLVPPRNLMIDIQK 151

Qy 136 DTAVEGEEIEVNCNTAMASKPATTIRWPKGN 165
Db 152 DTAVEGEEIEVNCNTAMASKPATTIRWPKGN 181

RESULT 43
ABR78243
ID ABR78243 standard; protein; 440 AA.
XX ABR78243;
AC ABR78243;
XX ABR78243;
DT 19-SEP-2003 (first entry)
DE Human secreted polypeptide PRO355, SEQ ID NO:34.
XX Human; PRO; secreted protein; transmembrane protein;
KW Human; PRO; secreted protein; transmembrane protein;
```

KW extracellular domain; tumour necrosis factor-alpha; TNF-alpha;
KW chondrocyte; proliferation; differentiation; cartilage disorder;
KW bone disorder; arthritis; sports injury; cancer; tumour; diagnosis;
KW adrenal tumour; lung; colon; breast; prostate; kidney; rectum; cervix;
KW liver; drug screening; transgenic animal; genetic analysis;
KW antiarthritic; vulnery; gene therapy.
XX Homo sapiens.
XX US2003054474-A1.
XX 20-MAR-2003.
XX 22-JUL-2002; 2002US-00201530.
XX 22-JUN-1998; 98US-0090254P.
PR 02-JUN-1999; 99WO-US012252.
PR 25-AUG-1999; 99US-00380137.
PR 28-FEB-2001; 2001WO-US006520.
PR 15-JAN-2002; 2002US-00052586.
XX (GETH) GENENTECH INC.
XX Baker KP, Chen J, Deenoyers L, Goddard A, Godowski EJ, Gurney AL;
PI Pan J, Smith V, Watanabe CK, Wood WL, Zhang Z;
XX WPI; 2003-503631/47.
DR N-PSDB; ACF00116.
XX New secreted and transmembrane PRO polypeptides and nucleic acids, useful
PT in gene therapy, or for preparing a medicament for treating a condition
PT that is responsive to the PRO polypeptide or anti-PRO antibody.
XX Claim 11; Fig 34; 700pp; English.
XX The invention relates to human PRO secreted/transmembrane polypeptides
XX (ABR78227-ABR78531) and nucleic acids encoding them (ACF00100-00404). The
XX invention also relates to sequences at least 80% identical to the PRO
XX nucleic acid and polypeptide sequences of the invention, recombinant
XX vectors and host cells comprising a PRO nucleic acid, a method for the
XX recombinant production of a PRO polypeptide, antibodies against a PRO
XX polypeptide, and fusion proteins comprising a PRO polypeptide. Nucleic
XX acids encoding PRO polypeptides of the invention were initially
XX identified via homology screening using consensus sequences based on the
XX extracellular domain sequences from known secreted proteins. Human cDNA
XX libraries containing sequences of interest were identified using
XX oligonucleotides based on the consensus sequences, and cDNA clones were
XX isolated and characterised. The PRO polypeptides are useful for
XX stimulating release of tumour necrosis factor-alpha (TNF-alpha) from
XX human blood and may thus be used in the treatment of conditions in which
XX enhanced TNF-alpha release would be beneficial. They are also useful for
XX stimulating the proliferation or differentiation of chondrocytes and as
XX disorders such as arthritis and sports injuries. The PRO polypeptides may
XX be used in a method for detecting the presence of a tumour (e.g., an
XX adrenal tumour, lung tumour, colon tumour, breast tumour, prostate
XX tumour, rectal tumour, cervical tumour or liver tumour) in a mammal. This
XX method involves comparing the level of expression of the PRO polypeptide
XX in test and control samples, where a higher level of expression of PRO
XX polypeptide in the test sample as compared to the control sample is
XX indicative of the presence of a tumour. The PRO polypeptides are
XX additionally useful for in drug screening to identify agonists and
XX antagonists of PRO polypeptides. PRO nucleic acids are useful as
XX hybridisation probes (for isolation of cDNA molecules), in chromosome and
XX gene mapping, in the generation of antisense RNA and DNA and in gene
XX therapy. The nucleic acids can also be used for mapping genes encoding
XX PRO polypeptides, for genetic analysis of individuals with genetic
XX disorders, and for generating either transgenic animals or knock-out
XX animals which are useful in the development and screening of
XX therapeutically useful compounds. Sequences ABR78227-ABR78531 represent
XX the human PRO secreted/transmembrane polypeptides of the invention. Note:
XX The sequence data for this patent is also available in electronic format
XX from USPTO at seqdata.uspto.gov/sequence.html

```
XX SQ Sequence 440 AA;
Query Match 35.5%; Score 150; DB 6; Length 440;
Best Local Similarity 100.0%; Pred. No. 7.7e-135;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 16 SAAALPTGQGNLFTKDVTVIEGEVATISQVKNKSDSVIQLNPNRQTIYFRDRPLK 75
Db 32 SAAALPTGQGNLFTKDVTVIEGEVATISQVKNKSDSVIQLNPNRQTIYFRDRPLK 91
Qy 76 DSRFQLNFSSELKVLNVSISDEGRYFCQLYTDPQSSYTTITVLVPPRNLMDIOK 135
Db 92 DSRFQLNFSSELKVLNVSISDEGRYFCQLYTDPQSSYTTITVLVPPRNLMDIOK 151
Qy 136 DTAVEGEEIEVNCNTAMASKPATTIRWFKGN 165
Db 152 DTAVEGEEIEVNCNTAMASKPATTIRWFKGN 181

RESULT 44
ABU64926
ID ABU64926 standard; protein; 440 AA.
AC ABU64926;
XX
DT 15-MAY-2003 (first entry)
XX
DE Human secreted/transmembrane protein PRO355.
XX
KW Human; PRO; secreted protein; transmembrane protein;
KW Cornelia de Lange syndrome; gene therapy; immune disorder;
KW inflammatory disease; organ failure; atherosclerosis; cardiac injury;
KW infertility; birth defect; premature aging; cardiac injury; AIDS; cancer;
KW diabetic complication.
XX
OS Homo sapiens.
XX
PN US2002173463-A1.
XX
PD 21-NOV-2002.
XX
PF 31-AUG-2001; 2001US-00944944.
XX
PR 03-DEC-1997; 97US-0067411P.
PR 11-DEC-1997; 97US-0069278P.
PR 11-DEC-1997; 97US-0069334P.
PR 11-DEC-1997; 97US-0069335P.
PR 12-DEC-1997; 97US-0069425P.
PR 16-DEC-1997; 97US-0069694P.
PR 16-DEC-1997; 97US-0069696P.
PR 16-DEC-1997; 97US-0069702P.
PR 17-DEC-1997; 97US-0069870P.
PR 17-DEC-1997; 97US-0069873P.
PR 18-DEC-1997; 97US-0068017P.
PR 05-JAN-1998; 98US-0070440P.
PR 09-FEB-1998; 98US-0074086P.
PR 09-FEB-1998; 98US-0074092P.
PR 22-FEB-1998; 98US-0075945P.
PR 16-SEP-1998; 98WO-US019330.
PR 01-DEC-1998; 98WO-US025108.
PR 22-DEC-1998; 98US-0112850P.
PR 22-DEC-1998; 98US-0113296P.
PR 02-JUN-1999; 99WO-US012252.
PR 28-JUL-1999; 99WO-US0146222P.
PR 15-SEP-1999; 99WO-US021090.
PR 30-NOV-1999; 99WO-US028313.
PR 30-NOV-1999; 99WO-US028409.
PR 01-DEC-1999; 99WO-US028301.
PR 16-DEC-1999; 99WO-US030095.
PR 11-FEB-2000; 2000WO-US003565.
PR 22-FEB-2000; 2000WO-US004414.
PR 02-MAR-2000; 2000WO-US005841.
```

```
PR 30-MAR-2000; 2000WO-US008439.
PR 22-MAY-2000; 2000WO-US014042.
PR 28-JUL-2000; 2000WO-US020710.
PR 01-DEC-2000; 2000WO-US032678.
PR 28-FEB-2001; 2001WO-US006520.
PR 25-MAY-2001; 2001US-00866028.
XX
PA (GETH ) GENENTECH INC.
XX
PI Baker KP, Botstein D, Eaton DL, Ferrara N, Filvaroff E,
PI Gerritsen MB, Goddard A, Godowski PJ, Grimaldi JC, Gurney AL;
PI Hillan KJ, Kljavin IJ, Napier MA, Roy MA, Tumas D, Wood WI;
XX
XX WPI; 2003-311003/30.
DR N-PSDB; ABX96814.
XX
XX New transmembrane polypeptides and polynucleotides useful for chromosome
PT identification, tissue typing, gene therapy, in chromosome and gene
PT mapping, or as molecular weight markers.
XX
PS Claim 12; Fig 24; 172pp; English.
XX
CC The invention relates to an isolated nucleic acid encoding a secreted/
CC transmembrane polypeptide (designated as PRO proteins). 15 PRO
CC polypeptides and their encoding polynucleotides are disclosed. Also
CC included are a vector comprising the PRO nucleic acid, a host cell
CC comprising the vector, a process for producing a PRO polypeptide (by
CC culturing the host cell under conditions for the expression of the PRO
CC polypeptide, and recovering the PRO polypeptide from the cell culture, an
CC isolated polypeptide having at least 80% amino acid sequence identity to
CC the PRO polypeptides, a chimaeric molecule comprising PRO fused to a
CC heterologous amino acid sequence and an antibody which specifically binds
CC to PRO. The PRO nucleotide sequences are useful as hybridisation probes,
CC in chromosome and gene mapping, in generating sense and antisense RNA or
CC DNA, in generating transgenic or knock-out animals which can be used in
CC the development and screening of therapeutically useful reagents, and in
CC gene therapy. The polypeptides may be used as molecular weight markers
CC for protein electrophoresis purposes. The PRO polypeptides and nucleic
CC acids may also be used for chromosome identification, and tissue typing.
CC PRO241 (identified as Chordin) is a candidate gene for Cornelia de Lange
CC syndrome. Other PRO proteins are variously implicated in immune
CC disorders, inflammatory disease, organ failure, atherosclerosis, cardiac
CC injury, infertility, birth defects, premature aging, cardiac injury,
CC AIDS, cancer and diabetic complications. The present sequence represents
CC a PRO protein
XX
SQ Sequence 440 AA;
Query Match 35.5%; Score 150; DB 6; Length 440;
Best Local Similarity 100.0%; Pred. No. 7.7e-135;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 16 SAAALPTGQGNLFTKDVTVIEGEVATISQVKNKSDSVIQLNPNRQTIYFRDRPLK 75
Db 32 SAAALPTGQGNLFTKDVTVIEGEVATISQVKNKSDSVIQLNPNRQTIYFRDRPLK 91
Qy 76 DSRFQLNFSSELKVLNVSISDEGRYFCQLYTDPQSSYTTITVLVPPRNLMDIOK 135
Db 92 DSRFQLNFSSELKVLNVSISDEGRYFCQLYTDPQSSYTTITVLVPPRNLMDIOK 151
Qy 136 DTAVEGEEIEVNCNTAMASKPATTIRWFKGN 165
Db 152 DTAVEGEEIEVNCNTAMASKPATTIRWFKGN 181

RESULT 45
ABU84979
ID ABU84979 standard; protein; 440 AA.
XX
XX ABU84979;
AC ABU84979;
XX
XX 30-JUN-2003 (first entry)
DT
XX
```


DE Novel human secreted and transmembrane protein PRO355.
XX Human; secreted and transmembrane protein; PRO; cytostatic; gene therapy;
KW chondrocyte stimulator; chromosome mapping; gene mapping;
KW transgenic animal; knock-out animal; tumour.
XX Homo sapiens.
XX
PN US2003032114-A1.
XX
XX 13-FEB-2003.
XX
XX 20-JUN-2002; 2002US-00176919.
XX
XX 18-SEP-1997; 97US-0059263P.
PR 18-SEP-1997; 97US-0059266P.
PR 17-OCT-1997; 97US-0062250P.
PR 21-OCT-1997; 97US-0063486P.
PR 24-OCT-1997; 97US-00631120P.
PR 24-OCT-1997; 97US-00631121P.
PR 28-OCT-1997; 97US-0063540P.
PR 28-OCT-1997; 97US-0063541P.
PR 28-OCT-1997; 97US-0063544P.
PR 28-OCT-1997; 97US-0063564P.
PR 29-OCT-1997; 97US-0063734P.
PR 31-OCT-1997; 97US-0063870P.
PR 31-OCT-1997; 97US-0064103P.
PR 13-NOV-1997; 97US-0065311P.
PR 21-NOV-1997; 97US-00661120P.
PR 24-NOV-1997; 97US-0066466P.
PR 24-NOV-1997; 97US-0066772P.
PR 11-DEC-1997; 97US-0069335P.
PR 12-DEC-1997; 97US-0069425P.
PR 17-DEC-1997; 97US-0069870P.
PR 18-DEC-1997; 97US-0068017P.
PR 10-MAR-1998; 98US-0077450P.
PR 11-MAR-1998; 98US-0077632P.
PR 11-MAR-1998; 98US-0077649P.
PR 20-MAR-1998; 98US-0078886P.
PR 20-MAR-1998; 98US-0078939P.
PR 27-MAR-1998; 98US-0079664P.
PR 27-MAR-1998; 98US-0079786P.
PR 31-MAR-1998; 98US-0080107P.
PR 31-MAR-1998; 98US-0080194P.
PR 01-APR-1998; 98US-0080327P.
PR 01-APR-1998; 98US-0080333P.
PR 08-APR-1998; 98US-0081049P.
PR 08-APR-1998; 98US-0081070P.
PR 09-APR-1998; 98US-0081195P.
PR 15-APR-1998; 98US-0081838P.
PR 21-APR-1998; 98US-0082568P.
PR 21-APR-1998; 98US-0082569P.
PR 22-APR-1998; 98US-0082704P.
PR 22-APR-1998; 98US-0082797P.
PR 28-APR-1998; 98US-0083332P.
PR 29-APR-1998; 98US-0083495P.
PR 29-APR-1998; 98US-0083496P.
PR 29-APR-1998; 98US-0083499P.
PR 29-APR-1998; 98US-0083559P.
PR 05-MAY-1998; 98US-0084366P.
PR 06-MAY-1998; 98US-0084444P.
PR 07-MAY-1998; 98US-0084639P.
PR 07-MAY-1998; 98US-0084640P.
PR 07-MAY-1998; 98US-0084643P.
PR 15-MAY-1998; 98US-0085579P.
PR 15-MAY-1998; 98US-0085580P.
PR 15-MAY-1998; 98US-0085582P.
PR 15-MAY-1998; 98US-0085700P.
PR 18-MAY-1998; 98US-0086023P.
PR 22-MAY-1998; 98US-0086392P.
PR 22-MAY-1998; 98US-0086486P.
PR 28-MAY-1998; 98US-0087038P.
PR 28-MAY-1998; 98US-0087208P.
PR
PR 02-JUN-1998; 98US-0087609P.
PR 02-JUN-1998; 98US-0087759P.
PR 03-JUN-1998; 98US-0087827P.
PR 04-JUN-1998; 98US-0088025P.
PR 04-JUN-1998; 98US-0088028P.
PR 04-JUN-1998; 98US-0088029P.
PR 04-JUN-1998; 98US-0088033P.
PR 04-JUN-1998; 98US-0088326P.
PR 05-JUN-1998; 98US-0088167P.
PR 05-JUN-1998; 98US-0088202P.
PR 05-JUN-1998; 98US-0088212P.
PR 05-JUN-1998; 98US-0088217P.
PR 09-JUN-1998; 98US-0088655P.
PR 10-JUN-1998; 98US-0088722P.
PR 10-JUN-1998; 98US-0088738P.
PR 10-JUN-1998; 98US-0088740P.
PR 10-JUN-1998; 98US-0088811P.
PR 10-JUN-1998; 98US-0088824P.
PR 10-JUN-1998; 98US-0088825P.
PR 10-JUN-1998; 98US-0088826P.
PR 11-JUN-1998; 98US-0088861P.
PR 11-JUN-1998; 98US-0088863P.
PR 12-JUN-1998; 98US-0088876P.
PR 12-JUN-1998; 98US-0089090P.
PR 12-JUN-1998; 98US-0089105P.
PR 16-JUN-1998; 98US-0089512P.
PR 16-JUN-1998; 98US-0089514P.
PR 17-JUN-1998; 98US-0089538P.
PR 17-JUN-1998; 98US-0089598P.
PR 17-JUN-1998; 98US-0089653P.
PR 18-JUN-1998; 98US-0089908P.
PR 19-JUN-1998; 98US-0089952P.
PR 22-JUN-1998; 98US-0090246P.
PR 22-JUN-1998; 98US-0090252P.
PR 22-JUN-1998; 98US-0090254P.
PR 24-JUN-1998; 98US-0090429P.
PR 24-JUN-1998; 98US-0090435P.
PR 24-JUN-1998; 98US-0090444P.
PR 24-JUN-1998; 98US-0090461P.
PR 24-JUN-1998; 98US-0090535P.
PR 24-JUN-1998; 98US-0090540P.
PR 25-JUN-1998; 98US-0090676P.
PR 25-JUN-1998; 98US-0090678P.
PR 25-JUN-1998; 98US-0090688P.
PR 25-JUN-1998; 98US-0090690P.
PR 25-JUN-1998; 98US-0090694P.
PR 25-JUN-1998; 98US-0090695P.
PR 25-JUN-1998; 98US-0090696P.
PR 26-JUN-1998; 98US-00105413.
PR 26-JUN-1998; 98US-0090862P.
PR 26-JUN-1998; 98US-0090863P.
PR 26-JUN-1998; 98US-0091010P.
PR 01-JUL-1998; 98US-0091359P.
PR 01-JUL-1998; 98US-0091544P.
PR 02-JUL-1998; 98US-0091478P.
PR 02-JUL-1998; 98US-0091486P.
PR 02-JUL-1998; 98US-0091626P.
PR 02-JUL-1998; 98US-0091628P.
PR 02-JUL-1998; 98US-0091632P.
PR 04-JUL-1998; 98US-0094006P.
PR 04-AUG-1998; 98US-0095282P.
PR 10-AUG-1998; 98US-0095998P.
PR 10-AUG-1998; 98US-0096012P.
PR 17-AUG-1998; 98US-0096757P.
PR 17-AUG-1998; 98US-0096766P.
PR 17-AUG-1998; 98US-009687P.
PR 17-AUG-1998; 98US-0096891P.
PR 17-AUG-1998; 98US-0096897P.
PR 18-AUG-1998; 98US-0096949P.
PR 18-AUG-1998; 98US-0096959P.
PR 18-AUG-1998; 98US-0097022P.
PR 26-AUG-1998; 98US-0097952P.
PR 26-AUG-1998; 98US-0097954P.

PR 26-AUG-1998; 98US-0097955P.
PR 26-AUG-1998; 98US-0097971P.
PR 26-AUG-1998; 98US-0097974P.
PR 26-AUG-1998; 98US-0098014P.
PR 01-SEP-1998; 98US-0098716P.
PR 01-SEP-1998; 98US-0098723P.
PR 02-SEP-1998; 98US-0098803P.
PR 02-SEP-1998; 98US-0098821P.
PR 02-SEP-1998; 98US-0098843P.
PR 09-SEP-1998; 98US-0099602P.
PR 10-SEP-1998; 98US-0099741P.
PR 10-SEP-1998; 98US-0099754P.
PR 10-SEP-1998; 98US-0099763P.
PR 10-SEP-1998; 98US-0099812P.
PR 15-SEP-1998; 98US-0100388P.
PR 16-SEP-1998; 98US-0100662P.
PR 16-SEP-1998; 98US-0100664P.
PR 16-SEP-1998; 98US-0101751P.
PR 16-SEP-1998; 98WO-US019330.
PR 17-SEP-1998; 98US-0100683P.
PR 17-SEP-1998; 98US-0100684P.
PR 17-SEP-1998; 98US-0100919P.
PR 17-SEP-1998; 98US-0100930P.
PR 18-SEP-1998; 98US-0100849P.
PR 18-SEP-1998; 98US-0101014P.
PR 18-SEP-1998; 98US-0101068P.
PR 23-SEP-1998; 98US-0101471P.
PR 23-SEP-1998; 98US-0101472P.
PR 23-SEP-1998; 98US-0101475P.
PR 23-SEP-1998; 98US-0101477P.
PR 24-SEP-1998; 98US-0101738P.
PR 24-SEP-1998; 98US-0101739P.
PR 24-SEP-1998; 98US-0101743P.
PR 24-SEP-1998; 98US-0101922P.
PR 25-SEP-1998; 98US-0101786P.
PR 29-SEP-1998; 98US-0102207P.
PR 29-SEP-1998; 98US-0102240P.
PR 29-SEP-1998; 98US-0102330P.
PR 29-SEP-1998; 98US-0102331P.
PR 30-SEP-1998; 98US-0102487P.
PR 30-SEP-1998; 98US-0102570P.
PR 30-SEP-1998; 98US-0102571P.
PR 01-OCT-1998; 98US-0102684P.
PR 01-OCT-1998; 98US-0102687P.
PR 02-OCT-1998; 98US-0102965P.
PR 06-OCT-1998; 98US-0103258P.
PR 06-OCT-1998; 98US-0103449P.
PR 07-OCT-1998; 98US-00168978.

Query Match 35.5%; Score 150; DB 6; Length 440;

Best Local Similarity 100.0%; Pred. No. 7.7e-135;

Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 16 SAALAIPTGQCNLFTHKDVTVIEGEVATISQVKNKSDSVIQLNPNRQTIYFRDPRPLK 75

Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||

32 SAALAIPTGQCNLFTHKDVTVIEGEVATISQVKNKSDSVIQLNPNRQTIYFRDPRPLK 91

Qy 76 DSRFQLNFSSELKUSLTNWSISDEGRYFCOLYTDPPQSSYTTITVLVPRNLMIDIQK 135

Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||

92 DSRFQLNFSSELKUSLTNWSISDEGRYFCOLYTDPPQSSYTTITVLVPRNLMIDIQK 151

Qy 136 DTAVEGEIEVNCVTAMASKPATIRWFKGN 165

Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||

152 DTAVEGEIEVNCVTAMASKPATIRWFKGN 181

RESULT 46

ABO00118

ID ABO00118 standard; protein; 440 AA.

XX AC ABO00118;

XX DT 06-AUG-2003 (first entry)

XX Novel human secreted and transmembrane protein PRO355.
DE Human; gene therapy; tumour necrosis factor alpha; TNF-alpha;
KW chondrocyte stimulation; tumour; tissue typing.
XX Homo sapiens.
OS US2003032101-A1.
PN 13-FEB-2003.
PD 17-JUN-2002; 2002US-00173695.
PR 18-SEP-1997; 97US-0059263P.
PR 18-SEP-1997; 97US-0059266P.
PR 17-OCT-1997; 97US-0062250P.
PR 21-OCT-1997; 97US-0063486P.
PR 24-OCT-1997; 97US-0063120P.
PR 24-OCT-1997; 97US-0063121P.
PR 28-OCT-1997; 97US-0063540P.
PR 28-OCT-1997; 97US-0063541P.
PR 28-OCT-1997; 97US-0063544P.
PR 28-OCT-1997; 97US-0063564P.
PR 28-OCT-1997; 97US-0063734P.
PR 31-OCT-1997; 97US-0063870P.
PR 31-OCT-1997; 97US-0064103P.
PR 13-NOV-1997; 97US-0065311P.
PR 21-NOV-1997; 97US-0066120P.
PR 24-NOV-1997; 97US-0066466P.
PR 24-NOV-1997; 97US-0066772P.
PR 11-DEC-1997; 97US-0069335P.
PR 12-DEC-1997; 97US-0069425P.
PR 17-DEC-1997; 97US-0069870P.
PR 18-DEC-1997; 97US-0068017P.
PR 10-MAR-1998; 98US-0077450P.
PR 11-MAR-1998; 98US-0077632P.
PR 11-MAR-1998; 98US-0077649P.
PR 20-MAR-1998; 98US-0078886P.
PR 20-MAR-1998; 98US-0078919P.
PR 27-MAR-1998; 98US-0079664P.
PR 27-MAR-1998; 98US-0079786P.
PR 31-MAR-1998; 98US-0080107P.
PR 31-MAR-1998; 98US-0080194P.
PR 01-APR-1998; 98US-0080327P.
PR 01-APR-1998; 98US-0080333P.
PR 08-APR-1998; 98US-0081049P.
PR 08-APR-1998; 98US-0081070P.
PR 09-APR-1998; 98US-0081195P.
PR 15-APR-1998; 98US-0081838P.
PR 21-APR-1998; 98US-0082568P.
PR 21-APR-1998; 98US-0082569P.
PR 22-APR-1998; 98US-0082704P.
PR 22-APR-1998; 98US-0082797P.
PR 28-APR-1998; 98US-0083322P.
PR 28-APR-1998; 98US-0083495P.
PR 29-APR-1998; 98US-0083496P.
PR 29-APR-1998; 98US-0083499P.
PR 29-APR-1998; 98US-0083559P.
PR 05-MAY-1998; 98US-0084366P.
PR 06-MAY-1998; 98US-0084414P.
PR 07-MAY-1998; 98US-0084639P.
PR 07-MAY-1998; 98US-0084640P.
PR 07-MAY-1998; 98US-0084643P.
PR 15-MAY-1998; 98US-0085579P.
PR 15-MAY-1998; 98US-0085580P.
PR 15-MAY-1998; 98US-0085582P.
PR 15-MAY-1998; 98US-0085700P.
PR 18-MAY-1998; 98US-0086023P.
PR 22-MAY-1998; 98US-0086392P.
PR 22-MAY-1998; 98US-0086486P.
PR 28-MAY-1998; 98US-0087098P.
PR 28-MAY-1998; 98US-0087208P.

```
PR 02-JUN-1998; 98US-0087609P.
PR 02-JUN-1998; 98US-0087759P.
PR 03-JUN-1998; 98US-0087827P.
PR 04-JUN-1998; 98US-0088025P.
PR 04-JUN-1998; 98US-0088028P.
PR 04-JUN-1998; 98US-0088029P.
PR 04-JUN-1998; 98US-0088033P.
PR 04-JUN-1998; 98US-0088326P.
PR 05-JUN-1998; 98US-0088167P.
PR 05-JUN-1998; 98US-0088202P.
PR 05-JUN-1998; 98US-0088212P.
PR 05-JUN-1998; 98US-0088217P.
PR 09-JUN-1998; 98US-0088655P.
PR 10-JUN-1998; 98US-0088722P.
PR 10-JUN-1998; 98US-0088738P.
PR 10-JUN-1998; 98US-0088740P.
PR 10-JUN-1998; 98US-0088811P.
PR 10-JUN-1998; 98US-0088824P.
PR 10-JUN-1998; 98US-0088826P.
PR 11-JUN-1998; 98US-0088861P.
PR 11-JUN-1998; 98US-0088863P.
PR 11-JUN-1998; 98US-0088876P.
PR 12-JUN-1998; 98US-0089030P.
PR 12-JUN-1998; 98US-0089105P.
PR 16-JUN-1998; 98US-0089512P.
PR 16-JUN-1998; 98US-0089514P.
PR 17-JUN-1998; 98US-0089538P.
PR 17-JUN-1998; 98US-0089598P.
PR 17-JUN-1998; 98US-0089653P.
PR 18-JUN-1998; 98US-0089908P.
PR 19-JUN-1998; 98US-0089952P.
PR 22-JUN-1998; 98US-0090246P.
PR 22-JUN-1998; 98US-0090252P.
PR 22-JUN-1998; 98US-0090254P.
PR 24-JUN-1998; 98US-0090429P.
PR 24-JUN-1998; 98US-0090435P.
PR 24-JUN-1998; 98US-0090444P.
PR 24-JUN-1998; 98US-0090461P.
PR 24-JUN-1998; 98US-0090535P.
PR 24-JUN-1998; 98US-0090540P.
PR 25-JUN-1998; 98US-0090676P.
PR 25-JUN-1998; 98US-0090678P.
PR 25-JUN-1998; 98US-0090688P.
PR 25-JUN-1998; 98US-0090690P.
PR 25-JUN-1998; 98US-0090694P.
PR 25-JUN-1998; 98US-0090695P.
PR 26-JUN-1998; 98US-00105413.
PR 26-JUN-1998; 98US-0090862P.
PR 26-JUN-1998; 98US-0090863P.
PR 26-JUN-1998; 98US-0091010P.
PR 01-JUL-1998; 98US-0091359P.
PR 01-JUL-1998; 98US-0091626P.
PR 02-JUL-1998; 98US-0091544P.
PR 02-JUL-1998; 98US-0091478P.
PR 02-JUL-1998; 98US-0091486P.
PR 02-JUL-1998; 98US-0091626P.
PR 02-JUL-1998; 98US-0091628P.
PR 02-JUL-1998; 98US-0091632P.
PR 24-JUL-1998; 98US-0094006P.
PR 04-AUG-1998; 98US-0095282P.
PR 10-AUG-1998; 98US-0095998P.
PR 10-AUG-1998; 98US-0096012P.
PR 17-AUG-1998; 98US-0096757P.
PR 17-AUG-1998; 98US-0096766P.
PR 17-AUG-1998; 98US-0096867P.
PR 17-AUG-1998; 98US-0096851P.
PR 17-AUG-1998; 98US-0096897P.
PR 18-AUG-1998; 98US-0096949P.
PR 18-AUG-1998; 98US-0096959P.
PR 26-AUG-1998; 98US-0097022P.
PR 26-AUG-1998; 98US-0097954P.
```

```
PR 26-AUG-1998; 98US-0097955P.
PR 26-AUG-1998; 98US-0097971P.
PR 26-AUG-1998; 98US-0097974P.
PR 26-AUG-1998; 98US-0098014P.
PR 01-SEP-1998; 98US-0098716P.
PR 01-SEP-1998; 98US-0098723P.
PR 02-SEP-1998; 98US-0098803P.
PR 02-SEP-1998; 98US-0098821P.
PR 02-SEP-1998; 98US-0098843P.
PR 09-SEP-1998; 98US-0099602P.
PR 10-SEP-1998; 98US-0099741P.
PR 10-SEP-1998; 98US-0099763P.
PR 10-SEP-1998; 98US-0099812P.
PR 13-SEP-1998; 98US-0100388P.
PR 16-SEP-1998; 98US-0100662P.
PR 16-SEP-1998; 98US-0100664P.
PR 16-SEP-1998; 98US-0101751P.
PR 16-SEP-1998; 98US-01019330.
PR 17-SEP-1998; 98US-0100683P.
PR 17-SEP-1998; 98US-0100684P.
PR 17-SEP-1998; 98US-0100919P.
PR 17-SEP-1998; 98US-0100930P.
PR 18-SEP-1998; 98US-0100849P.
PR 18-SEP-1998; 98US-0101014P.
PR 18-SEP-1998; 98US-0101068P.
PR 23-SEP-1998; 98US-0101471P.
PR 23-SEP-1998; 98US-0101472P.
PR 23-SEP-1998; 98US-0101475P.
PR 23-SEP-1998; 98US-0101477P.
PR 24-SEP-1998; 98US-0101738P.
PR 24-SEP-1998; 98US-0101739P.
PR 24-SEP-1998; 98US-0101743P.
PR 24-SEP-1998; 98US-0101922P.
PR 25-SEP-1998; 98US-0101786P.
PR 29-SEP-1998; 98US-010207P.
PR 29-SEP-1998; 98US-0102240P.
PR 29-SEP-1998; 98US-0102330P.
PR 29-SEP-1998; 98US-0102331P.
PR 30-SEP-1998; 98US-0102487P.
PR 30-SEP-1998; 98US-0102570P.
PR 30-SEP-1998; 98US-0102571P.
PR 01-OCT-1998; 98US-0102684P.
PR 01-OCT-1998; 98US-0102687P.
PR 02-OCT-1998; 98US-0102965P.
PR 06-OCT-1998; 98US-0103258P.
PR 06-OCT-1998; 98US-0103449P.
PR 07-OCT-1998; 98US-00168978.
PR 07-OCT-1998; 98US-0103395P.
```

Query Match 35.5%; Score 150; DB 6; Length 440;

Best Local Similarity 100.0%; Pred. No. 7.7e-135;

Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 16 SAAALPTGQQLFKDVTVIEGEVATISCVNKSDDSVIQLNPNRQTIYFRDFRPLK 75

Db 32 SAAALPTGQQLFKDVTVIEGEVATISCVNKSDDSVIQLNPNRQTIYFRDFRPLK 91

Qy 76 DSRFQLNFSSELKVSLSNVSISDEGRYFCOLYTDPPQESYTTITVLVPPRNLMDIOK 135

Db 92 DSRFQLNFSSELKVSLSNVSISDEGRYFCOLYTDPPQESYTTITVLVPPRNLMDIOK 151

Qy 136 DTAVEGEEIEVNCNTAMASKPATIRWFKGN 165

Db 152 DTAVEGEEIEVNCNTAMASKPATIRWFKGN 181

RESULT 47

ABO11450

ID ABO11450 standard; protein; 440 AA.

XX ABO11450;

AC

XX

DT 26-AUG-2003 (first entry)
XX Human secreted/transmembrane protein (PRO) #17.
DE Human;
XX Human; secreted and transmembrane protein; PRO; TNF-alpha;
KW tumour necrosis factor alpha; chondrocyte cell; tumour; gene therapy;
KW tissue typing; adrenal tumour; lung tumour; colon tumour; breast tumour;
KW prostate tumour; rectal tumour; cervical tumour; liver tumour.
XX Homo sapiens.
XX US2003036124-A1.
XX 20-FEB-2003.
XX 26-JUN-2002; 2002US-00180998.
XX 18-SEP-1997; 97US-0059263P.
PR 18-SEP-1997; 97US-0059266P.
PR 17-OCT-1997; 97US-0062280P.
PR 21-OCT-1997; 97US-0063486P.
PR 24-OCT-1997; 97US-0063120P.
PR 24-OCT-1997; 97US-0063121P.
PR 28-OCT-1997; 97US-0063540P.
PR 28-OCT-1997; 97US-0063541P.
PR 28-OCT-1997; 97US-0063544P.
PR 28-OCT-1997; 97US-0063564P.
PR 29-OCT-1997; 97US-0063734P.
PR 31-OCT-1997; 97US-0063870P.
PR 31-OCT-1997; 97US-0064103P.
PR 13-NOV-1997; 97US-0065311P.
PR 21-NOV-1997; 97US-0066120P.
PR 24-NOV-1997; 97US-0066466P.
PR 24-NOV-1997; 97US-0066772P.
PR 11-DEC-1997; 97US-0069335P.
PR 12-DEC-1997; 97US-0069425P.
PR 17-DEC-1997; 97US-0069870P.
PR 18-DEC-1997; 97US-0068017P.
PR 10-MAR-1998; 98US-0077450P.
PR 11-MAR-1998; 98US-0077632P.
PR 11-MAR-1998; 98US-0077649P.
PR 20-MAR-1998; 98US-0078886P.
PR 27-MAR-1998; 98US-0078939P.
PR 27-MAR-1998; 98US-0079664P.
PR 27-MAR-1998; 98US-0079786P.
PR 31-MAR-1998; 98US-0080107P.
PR 31-MAR-1998; 98US-0080194P.
PR 01-APR-1998; 98US-0080327P.
PR 01-APR-1998; 98US-0080333P.
PR 08-APR-1998; 98US-0081049P.
PR 08-APR-1998; 98US-0081070P.
PR 09-APR-1998; 98US-0081195P.
PR 15-APR-1998; 98US-0081838P.
PR 21-APR-1998; 98US-0082568P.
PR 21-APR-1998; 98US-0082569P.
PR 22-APR-1998; 98US-0082704P.
PR 22-APR-1998; 98US-0082797P.
PR 22-APR-1998; 98US-0083322P.
PR 29-APR-1998; 98US-0083495P.
PR 29-APR-1998; 98US-0083496P.
PR 29-APR-1998; 98US-0083499P.
PR 29-APR-1998; 98US-0083559P.
PR 05-MAY-1998; 98US-0084366P.
PR 06-MAY-1998; 98US-0084414P.
PR 07-MAY-1998; 98US-0084639P.
PR 07-MAY-1998; 98US-0084640P.
PR 07-MAY-1998; 98US-0084643P.
PR 15-MAY-1998; 98US-0085579P.
PR 15-MAY-1998; 98US-0085580P.
PR 15-MAY-1998; 98US-0085582P.
PR 15-MAY-1998; 98US-0085700P.
PR 18-MAY-1998; 98US-0086023P.
PR 22-MAY-1998; 98US-0086392P.
PR 22-MAY-1998; 98US-0086486P.
PR 28-MAY-1998; 98US-0087098P.
PR 28-MAY-1998; 98US-0087208P.
PR 02-JUN-1998; 98US-0087609P.
PR 02-JUN-1998; 98US-0087759P.
PR 03-JUN-1998; 98US-0087827P.
PR 04-JUN-1998; 98US-0088025P.
PR 04-JUN-1998; 98US-0088028P.
PR 04-JUN-1998; 98US-0088029P.
PR 04-JUN-1998; 98US-0088033P.
PR 04-JUN-1998; 98US-0088326P.
PR 05-JUN-1998; 98US-0088167P.
PR 05-JUN-1998; 98US-0088202P.
PR 05-JUN-1998; 98US-0088212P.
PR 05-JUN-1998; 98US-0088217P.
PR 05-JUN-1998; 98US-0088555P.
PR 09-JUN-1998; 98US-0088722P.
PR 10-JUN-1998; 98US-0088738P.
PR 10-JUN-1998; 98US-0088740P.
PR 10-JUN-1998; 98US-0088811P.
PR 10-JUN-1998; 98US-0088824P.
PR 10-JUN-1998; 98US-0088825P.
PR 10-JUN-1998; 98US-0088826P.
PR 11-JUN-1998; 98US-0088861P.
PR 11-JUN-1998; 98US-0088863P.
PR 11-JUN-1998; 98US-0088876P.
PR 12-JUN-1998; 98US-0089090P.
PR 12-JUN-1998; 98US-0089105P.
PR 16-JUN-1998; 98US-0089512P.
PR 16-JUN-1998; 98US-0089514P.
PR 17-JUN-1998; 98US-0089538P.
PR 17-JUN-1998; 98US-0089598P.
PR 17-JUN-1998; 98US-0089653P.
PR 18-JUN-1998; 98US-0089908P.
PR 19-JUN-1998; 98US-0089952P.
PR 22-JUN-1998; 98US-0090246P.
PR 22-JUN-1998; 98US-0090252P.
PR 22-JUN-1998; 98US-0090254P.
PR 24-JUN-1998; 98US-0090429P.
PR 24-JUN-1998; 98US-0090435P.
PR 24-JUN-1998; 98US-0090444P.
PR 24-JUN-1998; 98US-0090461P.
PR 24-JUN-1998; 98US-0090535P.
PR 24-JUN-1998; 98US-0090540P.
PR 25-JUN-1998; 98US-0090676P.
PR 25-JUN-1998; 98US-0090678P.
PR 25-JUN-1998; 98US-0090688P.
PR 25-JUN-1998; 98US-0090690P.
PR 25-JUN-1998; 98US-0090694P.
PR 25-JUN-1998; 98US-0090695P.
PR 25-JUN-1998; 98US-0090696P.
PR 26-JUN-1998; 98US-00105413.
PR 26-JUN-1998; 98US-0090862P.
PR 26-JUN-1998; 98US-0090863P.
PR 26-JUN-1998; 98US-0091010P.
PR 01-JUL-1998; 98US-0091359P.
PR 01-JUL-1998; 98US-0091544P.
PR 02-JUL-1998; 98US-0091478P.
PR 02-JUL-1998; 98US-0091486P.
PR 02-JUL-1998; 98US-0091626P.
PR 02-JUL-1998; 98US-0091628P.
PR 02-JUL-1998; 98US-0091632P.
PR 24-JUL-1998; 98US-0094006P.
PR 04-AUG-1998; 98US-0095282P.
PR 10-AUG-1998; 98US-0095998P.
PR 10-AUG-1998; 98US-0096012P.
PR 17-AUG-1998; 98US-0096757P.
PR 17-AUG-1998; 98US-0096766P.
PR 17-AUG-1998; 98US-0096867P.
PR 17-AUG-1998; 98US-0096891P.
PR 17-AUG-1998; 98US-0096897P.
PR 18-AUG-1998; 98US-0096949P.
PR 18-AUG-1998; 98US-0096959P.

```
PR 18-AUG-1998; 98US-00970222P.
PR 26-AUG-1998; 98US-00979522P.
PR 26-AUG-1998; 98US-00979542P.
PR 26-AUG-1998; 98US-00979552P.
PR 26-AUG-1998; 98US-00979712P.
PR 26-AUG-1998; 98US-00979742P.
PR 26-AUG-1998; 98US-00980142P.
PR 01-SEP-1998; 98US-00987162P.
PR 01-SEP-1998; 98US-00987232P.
PR 02-SEP-1998; 98US-00988032P.
PR 02-SEP-1998; 98US-00988212P.
PR 02-SEP-1998; 98US-00988432P.
PR 09-SEP-1998; 98US-00996022P.
PR 10-SEP-1998; 98US-00997412P.
PR 10-SEP-1998; 98US-00997542P.
PR 10-SEP-1998; 98US-00997632P.
PR 10-SEP-1998; 98US-00998122P.
PR 15-SEP-1998; 98US-01003882P.
PR 16-SEP-1998; 98US-01006622P.
PR 16-SEP-1998; 98US-01006642P.
PR 16-SEP-1998; 98US-01017512P.
PR 16-SEP-1998; 98US-01017512P.
PR 17-SEP-1998; 98US-01006832P.
PR 17-SEP-1998; 98US-01006842P.
PR 17-SEP-1998; 98US-01009192P.
PR 17-SEP-1998; 98US-01009192P.
PR 18-SEP-1998; 98US-01008492P.
PR 18-SEP-1998; 98US-01008492P.
PR 18-SEP-1998; 98US-01010142P.
PR 18-SEP-1998; 98US-01010682P.
PR 23-SEP-1998; 98US-01014712P.
PR 23-SEP-1998; 98US-01014722P.
PR 23-SEP-1998; 98US-01014752P.
PR 23-SEP-1998; 98US-01014772P.
PR 24-SEP-1998; 98US-01017382P.
PR 24-SEP-1998; 98US-01017392P.
PR 24-SEP-1998; 98US-01017432P.
PR 24-SEP-1998; 98US-01019222P.
PR 25-SEP-1998; 98US-01017862P.
PR 25-SEP-1998; 98US-01022072P.
PR 29-SEP-1998; 98US-01022402P.
PR 29-SEP-1998; 98US-01023302P.
PR 29-SEP-1998; 98US-01023312P.
PR 30-SEP-1998; 98US-01024872P.
PR 30-SEP-1998; 98US-01025702P.
PR 30-SEP-1998; 98US-01025712P.
PR 01-OCT-1998; 98US-01026842P.
PR 01-OCT-1998; 98US-01026872P.
PR 02-OCT-1998; 98US-01029552P.
PR 06-OCT-1998; 98US-01032582P.
PR 06-OCT-1998; 98US-01034492P.

Query Match 35.5%; Score 150; DB 6; Length 440;
Best Local Similarity 100.0%; Pred. No. 7.7e-135;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 16 SAALITGCGNLFYKDVTVIEGEVATISQVKNKSDSVIQLNPNRQTIYFRDPLK 75
Db 32 SAALITGCGNLFYKDVTVIEGEVATISQVKNKSDSVIQLNPNRQTIYFRDPLK 91
Qy 76 DSRFQLNFSSELKSLTNVSIDEGRYFCQLYTDPQESYTTITVLVPPRNLMIDIQ 135
Db 92 DSRFQLNFSSELKSLTNVSIDEGRYFCQLYTDPQESYTTITVLVPPRNLMIDIQ 151
Qy 136 DTAVEGEIEVNCVTAMASKPATTIRWFKGN 165
Db 152 DTAVEGEIEVNCVTAMASKPATTIRWFKGN 181

RESULT 48
ABO02095
ID ABO02095 standard; protein; 440 AA.
XX
AC ABO02095;
```

```
XX 09-AUG-2003 (first entry)
XX Human secreted/transmembrane protein (PRO) #17.
XX Human; secreted and transmembrane protein; PRO; TNF-alpha;
KW tumour necrosis factor alpha; chondrocyte cell; tumour; gene therapy;
KW tissue typing; adrenal tumour; lung tumour; colon tumour; breast tumour;
KW prostate tumour; rectal tumour; cervical tumour; liver tumour.
XX Homo sapiens.
XX US2003040054-A1.
XX 27-FEB-2003.
XX 20-JUN-2002; 2002US-00176479.
XX 18-SEP-1997; 97US-0059263P.
XX 18-SEP-1997; 97US-0059266P.
XX 17-OCT-1997; 97US-0062250P.
XX 21-OCT-1997; 97US-0063486P.
XX 24-OCT-1997; 97US-0063120P.
XX 24-OCT-1997; 97US-0063121P.
XX 28-OCT-1997; 97US-0063540P.
XX 28-OCT-1997; 97US-0063541P.
XX 28-OCT-1997; 97US-0063544P.
XX 28-OCT-1997; 97US-0063564P.
XX 28-OCT-1997; 97US-0063734P.
XX 31-OCT-1997; 97US-0063870P.
XX 31-OCT-1997; 97US-0064103P.
XX 13-NOV-1997; 97US-0065311P.
XX 21-NOV-1997; 97US-0066120P.
XX 24-NOV-1997; 97US-0066466P.
XX 24-NOV-1997; 97US-0066772P.
XX 11-DEC-1997; 97US-0069335P.
XX 12-DEC-1997; 97US-0069425P.
XX 17-DEC-1997; 97US-0069870P.
XX 18-DEC-1997; 97US-0068017P.
XX 10-MAR-1998; 98US-0077450P.
XX 11-MAR-1998; 98US-0077632P.
XX 11-MAR-1998; 98US-0077649P.
XX 20-MAR-1998; 98US-0078886P.
XX 20-MAR-1998; 98US-0078939P.
XX 27-MAR-1998; 98US-0079664P.
XX 27-MAR-1998; 98US-0079786P.
XX 31-MAR-1998; 98US-0080107P.
XX 31-MAR-1998; 98US-0080194P.
XX 01-APR-1998; 98US-0080327P.
XX 01-APR-1998; 98US-0080333P.
XX 08-APR-1998; 98US-0081049P.
XX 08-APR-1998; 98US-0081070P.
XX 09-APR-1998; 98US-0081195P.
XX 15-APR-1998; 98US-0081838P.
XX 21-APR-1998; 98US-0082568P.
XX 21-APR-1998; 98US-0082569P.
XX 22-APR-1998; 98US-0082704P.
XX 22-APR-1998; 98US-0082797P.
XX 28-APR-1998; 98US-0083322P.
XX 29-APR-1998; 98US-0083495P.
XX 29-APR-1998; 98US-0083496P.
XX 29-APR-1998; 98US-0083499P.
XX 29-APR-1998; 98US-0083559P.
XX 05-MAY-1998; 98US-0084366P.
XX 06-MAY-1998; 98US-0084414P.
XX 07-MAY-1998; 98US-0084639P.
XX 07-MAY-1998; 98US-0084640P.
XX 07-MAY-1998; 98US-0084643P.
XX 15-MAY-1998; 98US-0085579P.
XX 15-MAY-1998; 98US-0085580P.
XX 15-MAY-1998; 98US-0085582P.
XX 15-MAY-1998; 98US-0085700P.
XX 18-MAY-1998; 98US-0086023P.
```

| | | | |
|--|-------------------------------|--|-------------------------------|
| PR 22-MAY-1998; | 98US-0086392P. | PR 18-AUG-1998; | 98US-0097022P. |
| PR 22-MAY-1998; | 98US-0086486P. | PR 26-AUG-1998; | 98US-0097952P. |
| PR 28-MAY-1998; | 98US-0087098P. | PR 26-AUG-1998; | 98US-0097954P. |
| PR 28-MAY-1998; | 98US-0087208P. | PR 26-AUG-1998; | 98US-0097955P. |
| PR 02-JUN-1998; | 98US-0087609P. | PR 26-AUG-1998; | 98US-0097971P. |
| PR 02-JUN-1998; | 98US-0087759P. | PR 26-AUG-1998; | 98US-0097974P. |
| PR 03-JUN-1998; | 98US-0088028P. | PR 01-SEP-1998; | 98US-0098014P. |
| PR 04-JUN-1998; | 98US-0088028P. | PR 01-SEP-1998; | 98US-0098723P. |
| PR 04-JUN-1998; | 98US-0088029P. | PR 02-SEP-1998; | 98US-0098803P. |
| PR 04-JUN-1998; | 98US-0088033P. | PR 02-SEP-1998; | 98US-0098821P. |
| PR 04-JUN-1998; | 98US-0088326P. | PR 03-SEP-1998; | 98US-0098843P. |
| PR 05-JUN-1998; | 98US-0088167P. | PR 09-SEP-1998; | 98US-0099602P. |
| PR 05-JUN-1998; | 98US-0088202P. | PR 10-SEP-1998; | 98US-0099741P. |
| PR 05-JUN-1998; | 98US-0088212P. | PR 10-SEP-1998; | 98US-0099754P. |
| PR 05-JUN-1998; | 98US-0088217P. | PR 10-SEP-1998; | 98US-0099763P. |
| PR 09-JUN-1998; | 98US-0088655P. | PR 10-SEP-1998; | 98US-0099812P. |
| PR 10-JUN-1998; | 98US-0088722P. | PR 15-SEP-1998; | 98US-0100388P. |
| PR 10-JUN-1998; | 98US-0088738P. | PR 16-SEP-1998; | 98US-0100662P. |
| PR 10-JUN-1998; | 98US-0088740P. | PR 16-SEP-1998; | 98US-0100664P. |
| PR 10-JUN-1998; | 98US-0088811P. | PR 16-SEP-1998; | 98US-0101751P. |
| PR 10-JUN-1998; | 98US-0088824P. | PR 16-SEP-1998; | 98US-0101751P. |
| PR 10-JUN-1998; | 98US-0088825P. | PR 17-SEP-1998; | 98US-0100683P. |
| PR 10-JUN-1998; | 98US-0088826P. | PR 17-SEP-1998; | 98US-0100684P. |
| PR 11-JUN-1998; | 98US-0088861P. | PR 17-SEP-1998; | 98US-0100919P. |
| PR 11-JUN-1998; | 98US-0088863P. | PR 17-SEP-1998; | 98US-0100930P. |
| PR 11-JUN-1998; | 98US-0088876P. | PR 18-SEP-1998; | 98US-0100849P. |
| PR 12-JUN-1998; | 98US-0089090P. | PR 18-SEP-1998; | 98US-0101014P. |
| PR 12-JUN-1998; | 98US-0089105P. | PR 18-SEP-1998; | 98US-0101014P. |
| PR 16-JUN-1998; | 98US-0089512P. | PR 23-SEP-1998; | 98US-0101068P. |
| PR 16-JUN-1998; | 98US-0089514P. | PR 23-SEP-1998; | 98US-0101471P. |
| PR 17-JUN-1998; | 98US-0089538P. | PR 23-SEP-1998; | 98US-0101472P. |
| PR 17-JUN-1998; | 98US-0089598P. | PR 23-SEP-1998; | 98US-0101475P. |
| PR 17-JUN-1998; | 98US-0089653P. | PR 24-SEP-1998; | 98US-0101477P. |
| PR 18-JUN-1998; | 98US-0089908P. | PR 24-SEP-1998; | 98US-0101738P. |
| PR 19-JUN-1998; | 98US-0089952P. | PR 24-SEP-1998; | 98US-0101739P. |
| PR 22-JUN-1998; | 98US-0090246P. | PR 24-SEP-1998; | 98US-0101743P. |
| PR 22-JUN-1998; | 98US-0090252P. | PR 25-SEP-1998; | 98US-0101922P. |
| PR 22-JUN-1998; | 98US-0090254P. | PR 25-SEP-1998; | 98US-0101786P. |
| PR 22-JUN-1998; | 98US-0090254P. | PR 29-SEP-1998; | 98US-0102207P. |
| PR 24-JUN-1998; | 98US-0090429P. | PR 29-SEP-1998; | 98US-0102240P. |
| PR 24-JUN-1998; | 98US-0090435P. | PR 29-SEP-1998; | 98US-0102330P. |
| PR 24-JUN-1998; | 98US-0090444P. | PR 29-SEP-1998; | 98US-0102331P. |
| PR 24-JUN-1998; | 98US-0090461P. | PR 30-SEP-1998; | 98US-0102487P. |
| PR 24-JUN-1998; | 98US-0090535P. | PR 30-SEP-1998; | 98US-0102570P. |
| PR 24-JUN-1998; | 98US-0090540P. | PR 30-SEP-1998; | 98US-0102571P. |
| PR 25-JUN-1998; | 98US-0090676P. | PR 01-OCT-1998; | 98US-0102684P. |
| PR 25-JUN-1998; | 98US-0090678P. | PR 01-OCT-1998; | 98US-0102687P. |
| PR 25-JUN-1998; | 98US-0090688P. | PR 02-OCT-1998; | 98US-0102965P. |
| PR 25-JUN-1998; | 98US-0090694P. | PR 06-OCT-1998; | 98US-0103258P. |
| PR 25-JUN-1998; | 98US-0090695P. | PR 06-OCT-1998; | 98US-0103449P. |
| PR 25-JUN-1998; | 98US-0090696P. | PR 07-OCT-1998; | 98US-0103395P. |
| PR 26-JUN-1998; | 98US-0090862P. | | |
| PR 26-JUN-1998; | 98US-0090863P. | | |
| PR 26-JUN-1998; | 98US-0091010P. | | |
| PR 01-JUL-1998; | 98US-0091359P. | | |
| PR 01-JUL-1998; | 98US-0091544P. | | |
| PR 02-JUL-1998; | 98US-0091478P. | | |
| PR 02-JUL-1998; | 98US-0091486P. | | |
| PR 02-JUL-1998; | 98US-0091626P. | | |
| PR 02-JUL-1998; | 98US-0091628P. | | |
| PR 02-JUL-1998; | 98US-0091632P. | | |
| PR 24-JUL-1998; | 98US-0094006P. | | |
| PR 04-AUG-1998; | 98US-0095282P. | | |
| PR 10-AUG-1998; | 98US-0095998P. | | |
| PR 10-AUG-1998; | 98US-0096012P. | | |
| PR 17-AUG-1998; | 98US-0096757P. | | |
| PR 17-AUG-1998; | 98US-0096766P. | | |
| PR 17-AUG-1998; | 98US-0096867P. | | |
| PR 17-AUG-1998; | 98US-0096891P. | | |
| PR 17-AUG-1998; | 98US-0096897P. | | |
| PR 18-AUG-1998; | 98US-0096949P. | | |
| PR 18-AUG-1998; | 98US-0096959P. | | |
| RESULT 49 | | Query Match 35.5%; Score 150; DB 6; Length 440; | |
| ABUS8360 | | Best Local Similarity 100.0%; Pred. No. 7.7e-135; | |
| ID ABUS8360 standard; protein; 440 AA. | | Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0; | |
| XX | | | |
| Qy 16 | SAAALPTGQQLFTKDVTVIEGEVATIS | Qy 16 | SAAALPTGQQLFTKDVTVIEGEVATIS |
| Db 32 | SAAALPTGQQLFTKDVTVIEGEVATIS | Db 32 | SAAALPTGQQLFTKDVTVIEGEVATIS |
| Qy 76 | DSRFQLNFSSSELKVLNTNVSISDEGRY | Qy 76 | DSRFQLNFSSSELKVLNTNVSISDEGRY |
| Db 92 | DSRFQLNFSSSELKVLNTNVSISDEGRY | Db 92 | DSRFQLNFSSSELKVLNTNVSISDEGRY |
| Qy 136 | DTAVEGEIEVNCMTAMASKPATTIRWFGN | Qy 136 | DTAVEGEIEVNCMTAMASKPATTIRWFGN |
| Db 152 | DTAVEGEIEVNCMTAMASKPATTIRWFGN | Db 152 | DTAVEGEIEVNCMTAMASKPATTIRWFGN |

AC ABUS8360;
XX
DT 14-APR-2003 (first entry)
XX
DE Novel human secreted protein PRO355.
XX
XX Human, antiinflammatory; antiarteriosclerotic; cardiant; gynecological;
KW anti-HIV; cytosolic; antidiabetic; BMP-agonist; BMP-Antagonist;
KW cytokine-agonist; cytokine-antagonist; gene-therapy;
KW inflammatory disease; organ failure; atherosclerosis; cardiac injury;
KW infertility; birth defect; premature aging; AIDS; cancer;
KW diabetic complication.
XX
XX Homo sapiens.
OS
XX US2002150976-A1.
XX
XX 17-OCT-2002.
XX
XX 30-AUG-2001; 2001US-00943851.
XX
XX 03-DEC-1997; 97US-0067411P.
PR 11-DEC-1997; 97US-0069278P.
PR 11-DEC-1997; 97US-0069334P.
PR 11-DEC-1997; 97US-0069335P.
PR 12-DEC-1997; 97US-0069435P.
PR 16-DEC-1997; 97US-0069694P.
PR 16-DEC-1997; 97US-0069696P.
PR 16-DEC-1997; 97US-0069702P.
PR 17-DEC-1997; 97US-0069870P.
PR 17-DEC-1997; 97US-0069873P.
PR 18-DEC-1997; 97US-0068017P.
PR 05-JAN-1998; 98US-0070440P.
PR 09-FEB-1998; 98US-0074086P.
PR 09-FEB-1998; 98US-0074092P.
PR 25-FEB-1998; 98US-0075945P.
PR 16-SEP-1998; 98WO-US019330.
PR 01-DEC-1998; 98WO-US025108.
PR 16-DEC-1998; 98US-00216021.
PR 16-DEC-1998; 98US-0112850P.
PR 22-DEC-1998; 98US-0021851P.
PR 22-DEC-1998; 98US-0113296P.
PR 03-MAR-1999; 99US-00254311.
PR 02-JUN-1999; 99WO-US012252.
PR 28-JUL-1999; 99US-0146222P.
PR 15-SEP-1999; 99WO-US021090.
PR 30-NOV-1999; 99WO-US028313.
PR 30-NOV-1999; 99WO-US028409.
PR 01-DEC-1999; 99WO-US028301.
PR 16-DEC-1999; 99WO-US030095.
PR 11-FEB-2000; 2000WO-US003565.
PR 22-FEB-2000; 2000WO-US004414.
PR 02-MAR-2000; 2000WO-US005941.
PR 30-MAR-2000; 2000WO-US008439.
PR 22-MAY-2000; 2000WO-US014042.
PR 28-JUL-2000; 2000WO-US020710.
PR 01-DEC-2000; 2000WO-US032678.
PR 28-FEB-2001; 2001WO-US006520.
PR 25-MAY-2001; 2001US-00866028.
XX
XX (GETH) GENENTECH INC.
XX
XX Baker KP, Botstein D, Eaton DL, Ferrara N, Filvaroff E;
PI Gerritsen ME, Goddard A, Godowski PJ, Grimaldi JC, Gurney AL;
PI Hillan KJ, Kljavin IJ, Napier MA, Roy MA, Tumas D, Wood WT;
XX WPI; 2003-198285/19.
DR N-PSDB; ABX78468.
XX
XX New isolated PRO polypeptide and encoding nucleic acids, useful for the
PT diagnosis and treatment of disorders such as inflammatory disease,
PT atherosclerosis, cardiac injury, infertility, AIDS, cancer and diabetic
PT complications.

XX Claim 12; Fig 24; 171pp; English.
XX
XX The invention describes a novel isolated PRO polypeptide. The methods and
CC compositions of the present invention are useful for the diagnosis and
CC treatment of disorders such as inflammatory disease, organ failure,
CC atherosclerosis, cardiac injury, infertility, birth defects, premature
CC aging, AIDS, cancer, diabetic complications and mutations in general.
XX This is the amino acid sequence of a novel human secreted PRO protein
SQ Sequence 440 AA;
Query Match 35.5%; Score 150; DB 6; Length 440;
Best Local Similarity 100.0%; Pred. No. 7.7e-135; Indels 0; Gaps 0;
Matches 150; Conservative 0; Mismatches 0;
Qy 16 SAAALPTGQNLFTKDVTVIEGEVATISQVKNKSDSVIQLNPNRQTIYFRDPLK 75
Db |||||
Qy 76 DSRFQLNFSSELKVLSTNVSISDEGRYFCQLYTDPQESYTTITVLVPPRNLMIDIQ 135
Db |||||
Qy 136 DTAVEGEEIEVNCVTAMASKPATIRWPKGN 165
Db |||||
ID ABUS8669 standard; protein; 440 AA.
AC ABUS8669;
XX
DT 09-JUL-2003 (first entry)
XX
DE Novel human secreted and transmembrane protein PRO355.
KW Human; gene therapy; chondrocyte stimulation; TNF-alpha release;
KW chondrocyte proliferation; chondrocyte differentiation; tumour detection;
KW tissue typing.
XX Homo sapiens.
XX US2003036133-A1.
XX
XX 20-FEB-2003.
XX
XX 27-JUN-2002; 2002US-00184630.
XX
XX 18-SEP-1997; 97US-0059263P.
PR 18-SEP-1997; 97US-0059266P.
PR 17-OCT-1997; 97US-0062250P.
PR 21-OCT-1997; 97US-0063486P.
PR 24-OCT-1997; 97US-0063120P.
PR 24-OCT-1997; 97US-0063121P.
PR 28-OCT-1997; 97US-0063540P.
PR 28-OCT-1997; 97US-0063541P.
PR 28-OCT-1997; 97US-0063544P.
PR 28-OCT-1997; 97US-0063564P.
PR 29-OCT-1997; 97US-0063734P.
PR 31-OCT-1997; 97US-0063870P.
PR 31-OCT-1997; 97US-0064103P.
PR 13-NOV-1997; 97US-0065311P.
PR 21-NOV-1997; 97US-0066120P.
PR 24-NOV-1997; 97US-0066466P.
PR 24-NOV-1997; 97US-0066772P.
PR 11-DEC-1997; 97US-0069335P.
PR 12-DEC-1997; 97US-0069425P.
PR 17-DEC-1997; 97US-0069870P.
PR 18-DEC-1997; 97US-0068017P.
PR 10-MAR-1998; 98US-0077450P.

PR 11-MAR-1998; 98US-0077632P.
PR 11-MAR-1998; 98US-0077649P.
PR 20-MAR-1998; 98US-0078886P.
PR 20-MAR-1998; 98US-0078939P.
PR 20-MAR-1998; 98US-0079664P.
PR 27-MAR-1998; 98US-0079786P.
PR 31-MAR-1998; 98US-0080107P.
PR 31-MAR-1998; 98US-0080194P.
PR 01-APR-1998; 98US-0080327P.
PR 01-APR-1998; 98US-0080333P.
PR 08-APR-1998; 98US-0081049P.
PR 08-APR-1998; 98US-0081070P.
PR 09-APR-1998; 98US-0081195P.
PR 15-APR-1998; 98US-0081838P.
PR 21-APR-1998; 98US-0082568P.
PR 21-APR-1998; 98US-0082569P.
PR 22-APR-1998; 98US-0082704P.
PR 22-APR-1998; 98US-0082797P.
PR 28-APR-1998; 98US-0083322P.
PR 29-APR-1998; 98US-0083495P.
PR 29-APR-1998; 98US-0083496P.
PR 29-APR-1998; 98US-0083499P.
PR 29-APR-1998; 98US-0083559P.
PR 05-MAY-1998; 98US-0084366P.
PR 06-MAY-1998; 98US-0084414P.
PR 07-MAY-1998; 98US-0084639P.
PR 07-MAY-1998; 98US-0084640P.
PR 07-MAY-1998; 98US-0084643P.
PR 15-MAY-1998; 98US-0085579P.
PR 15-MAY-1998; 98US-0085580P.
PR 15-MAY-1998; 98US-0085582P.
PR 15-MAY-1998; 98US-0085700P.
PR 18-MAY-1998; 98US-0086023P.
PR 22-MAY-1998; 98US-0086392P.
PR 22-MAY-1998; 98US-0086466P.
PR 28-MAY-1998; 98US-0087098P.
PR 28-MAY-1998; 98US-0087208P.
PR 02-JUN-1998; 98US-0087609P.
PR 02-JUN-1998; 98US-0087759P.
PR 03-JUN-1998; 98US-0087827P.
PR 04-JUN-1998; 98US-0088025P.
PR 04-JUN-1998; 98US-0088028P.
PR 04-JUN-1998; 98US-0088029P.
PR 04-JUN-1998; 98US-0088033P.
PR 04-JUN-1998; 98US-0088326P.
PR 05-JUN-1998; 98US-0088157P.
PR 05-JUN-1998; 98US-0088202P.
PR 05-JUN-1998; 98US-0088212P.
PR 05-JUN-1998; 98US-0088217P.
PR 09-JUN-1998; 98US-0088655P.
PR 10-JUN-1998; 98US-0088722P.
PR 10-JUN-1998; 98US-0088738P.
PR 10-JUN-1998; 98US-0088740P.
PR 10-JUN-1998; 98US-0088811P.
PR 10-JUN-1998; 98US-0088824P.
PR 10-JUN-1998; 98US-0088825P.
PR 10-JUN-1998; 98US-0088836P.
PR 11-JUN-1998; 98US-0088851P.
PR 11-JUN-1998; 98US-0088863P.
PR 11-JUN-1998; 98US-0088876P.
PR 12-JUN-1998; 98US-0089090P.
PR 12-JUN-1998; 98US-0089105P.
PR 16-JUN-1998; 98US-0089512P.
PR 16-JUN-1998; 98US-0089514P.
PR 17-JUN-1998; 98US-0089538P.
PR 17-JUN-1998; 98US-0089598P.
PR 17-JUN-1998; 98US-0089653P.
PR 18-JUN-1998; 98US-0089908P.
PR 19-JUN-1998; 98US-0089952P.
PR 22-JUN-1998; 98US-0390246P.
PR 22-JUN-1998; 98US-0390252P.
PR 24-JUN-1998; 98US-0090254P.
PR 24-JUN-1998; 98US-0090429P.

PR 24-JUN-1998; 98US-0090435P.
PR 24-JUN-1998; 98US-0090444P.
PR 24-JUN-1998; 98US-0090461P.
PR 24-JUN-1998; 98US-0090535P.
PR 24-JUN-1998; 98US-0090540P.
PR 25-JUN-1998; 98US-0090676P.
PR 25-JUN-1998; 98US-0090678P.
PR 25-JUN-1998; 98US-0090688P.
PR 25-JUN-1998; 98US-0090690P.
PR 25-JUN-1998; 98US-0090694P.
PR 25-JUN-1998; 98US-0090695P.
PR 25-JUN-1998; 98US-0090696P.
PR 26-JUN-1998; 98US-00105413.
PR 26-JUN-1998; 98US-0090862P.
PR 26-JUN-1998; 98US-0090863P.
PR 26-JUN-1998; 98US-0091010P.
PR 01-JUL-1998; 98US-0091359P.
PR 01-JUL-1998; 98US-0091544P.
PR 02-JUL-1998; 98US-0091478P.
PR 02-JUL-1998; 98US-0091486P.
PR 02-JUL-1998; 98US-0091626P.
PR 02-JUL-1998; 98US-0091628P.
PR 02-JUL-1998; 98US-0091632P.
PR 04-JUL-1998; 98US-0091632P.
PR 04-AUG-1998; 98US-0094006P.
PR 10-AUG-1998; 98US-0095282P.
PR 10-AUG-1998; 98US-0095998P.
PR 10-AUG-1998; 98US-0096012P.
PR 17-AUG-1998; 98US-0096757P.
PR 17-AUG-1998; 98US-0096766P.
PR 17-AUG-1998; 98US-0096867P.
PR 17-AUG-1998; 98US-0096891P.
PR 17-AUG-1998; 98US-0096897P.
PR 18-AUG-1998; 98US-0096949P.
PR 18-AUG-1998; 98US-0096959P.
PR 18-AUG-1998; 98US-0097022P.
PR 26-AUG-1998; 98US-0097952P.
PR 26-AUG-1998; 98US-0097954P.
PR 26-AUG-1998; 98US-0097955P.
PR 26-AUG-1998; 98US-0097971P.
PR 26-AUG-1998; 98US-0097974P.
PR 26-AUG-1998; 98US-0098014P.
PR 01-SEP-1998; 98US-0098716P.
PR 02-SEP-1998; 98US-0098723P.
PR 02-SEP-1998; 98US-0098803P.
PR 02-SEP-1998; 98US-0098821P.
PR 02-SEP-1998; 98US-0098843P.
PR 03-SEP-1998; 98US-0098602P.
PR 10-SEP-1998; 98US-0099741P.
PR 10-SEP-1998; 98US-0099754P.
PR 10-SEP-1998; 98US-0099763P.
PR 10-SEP-1998; 98US-0099812P.
PR 15-SEP-1998; 98US-0100388P.
PR 16-SEP-1998; 98US-0100662P.
PR 16-SEP-1998; 98US-0100664P.
PR 16-SEP-1998; 98US-0101751P.
PR 16-SEP-1998; 98WO-US019330.
PR 17-SEP-1998; 98US-0100683P.
PR 17-SEP-1998; 98US-0100684P.
PR 17-SEP-1998; 98US-0100919P.
PR 17-SEP-1998; 98US-0100930P.
PR 18-SEP-1998; 98US-0100849P.
PR 18-SEP-1998; 98US-0101014P.
PR 18-SEP-1998; 98US-0101068P.
PR 23-SEP-1998; 98US-0101471P.
PR 23-SEP-1998; 98US-0101472P.
PR 23-SEP-1998; 98US-0101475P.
PR 23-SEP-1998; 98US-0101477P.
PR 24-SEP-1998; 98US-0101738P.
PR 24-SEP-1998; 98US-0101739P.
PR 24-SEP-1998; 98US-0101743P.
PR 24-SEP-1998; 98US-0101922P.
PR 25-SEP-1998; 98US-0101786P.
PR 29-SEP-1998; 98US-0102207P.


```
PR 29-SEP-1998; 98US-0102240P.
PR 29-SEP-1998; 98US-0102330P.
PR 29-SEP-1998; 98US-0102331P.
PR 30-SEP-1998; 98US-0102487P.
PR 30-SEP-1998; 98US-0102570P.
PR 30-SEP-1998; 98US-0102571P.
PR 01-OCT-1998; 98US-0102684P.
PR 01-OCT-1998; 98US-0102687P.
PR 02-OCT-1998; 98US-0102965P.
PR 06-OCT-1998; 98US-0103258P.
PR 06-OCT-1998; 98US-0103449P.
PR 07-OCT-1998; 98US-00168978.

Query Match      35.5%; Score 150; DB 6; Length 440;
Best Local Similarity 100.0%; Pred. No. 7.7e-135;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 16 SAALITGDCQNLFTKDVTVIEGEVATISQVKNKSDSVIQLLNPRQTIYFRDRPLK 75
   |||||
Db 32 SAALITGDCQNLFTKDVTVIEGEVATISQVKNKSDSVIQLLNPRQTIYFRDRPLK 91
   |||||

Qy 76 DSRFQLNFSSELKVLSTNVSISDEGRYFCQLYTDPQESYTTITVLVPPRNLMIDIQK 135
   |||||
Db 92 DSRFQLNFSSELKVLSTNVSISDEGRYFCQLYTDPQESYTTITVLVPPRNLMIDIQK 151
   |||||

Qy 136 DTAVEGEIEVNCCTAMASKPATTIRWPKGN 165
   |||||
Db 152 DTAVEGEIEVNCCTAMASKPATTIRWPKGN 181

RESULT 51
ABU83364
ID ABU83364 standard; protein; 440 AA.
XX AC ABU83364;
XX CC
XX DT 11-AUG-2003 (first entry)
XX DE Human secreted/transmembrane protein (PRO) #17.
XX KW Human; secreted and transmembrane protein; PRO; chromosome mapping;
XX KW gene mapping; gene therapy; tumour necrosis factor alpha; TNF-alpha;
XX KW chondrocyte; tumour.
XX OS Homo sapiens.
XX PN US2003036134-A1.
XX PD 20-FEB-2003.
XX PF 27-JUN-2002; 2002US-00184631.
XX PR 18-SEP-1997; 97US-0059263P.
XX PR 18-SEP-1997; 97US-0059266P.
XX PR 17-OCT-1997; 97US-0062250P.
XX PR 21-OCT-1997; 97US-0063486P.
XX PR 24-OCT-1997; 97US-0063120P.
XX PR 24-OCT-1997; 97US-0063121P.
XX PR 28-OCT-1997; 97US-0063540P.
XX PR 28-OCT-1997; 97US-0063541P.
XX PR 28-OCT-1997; 97US-0063544P.
XX PR 28-OCT-1997; 97US-0063564P.
XX PR 29-OCT-1997; 97US-0063734P.
XX PR 31-OCT-1997; 97US-0063870P.
XX PR 31-OCT-1997; 97US-0064103P.
XX PR 13-NOV-1997; 97US-0065311P.
XX PR 21-NOV-1997; 97US-0066120P.
XX PR 24-NOV-1997; 97US-0066466P.
XX PR 24-NOV-1997; 97US-0066772P.
XX PR 11-DEC-1997; 97US-0069335P.
XX PR 12-DEC-1997; 97US-0069425P.
XX PR 17-DEC-1997; 97US-0069870P.
XX PR 18-DEC-1997; 97US-0068017P.

98US-0077450P.
98US-0077632P.
98US-0077649P.
98US-0078886P.
98US-0078939P.
98US-0079664P.
98US-0079786P.
98US-0080107P.
98US-0080194P.
98US-0080327P.
98US-0080333P.
98US-0081049P.
98US-0081070P.
98US-0081195P.
98US-0081388P.
98US-0082568P.
98US-0082569P.
98US-0082704P.
98US-0082797P.
98US-0083322P.
98US-0083495P.
98US-0083496P.
98US-0083499P.
98US-0083559P.
98US-0084366P.
98US-0084414P.
98US-0084639P.
98US-0084640P.
98US-0084643P.
98US-0085579P.
98US-0085580P.
98US-0085582P.
98US-0085700P.
98US-0086023P.
98US-0086392P.
98US-0086486P.
98US-0087098P.
98US-0087208P.
98US-0087609P.
98US-0087759P.
98US-0087827P.
98US-0088025P.
98US-0088028P.
98US-0088029P.
98US-0088033P.
98US-0088326P.
98US-0088167P.
98US-0088202P.
98US-0088212P.
98US-0088217P.
98US-0088655P.
98US-0088722P.
98US-0088738P.
98US-0088740P.
98US-0088811P.
98US-0088824P.
98US-0088825P.
98US-0088826P.
98US-0088861P.
98US-0088863P.
98US-0088876P.
98US-0089090P.
98US-0089105P.
98US-0089512P.
98US-0089514P.
98US-0089538P.
98US-0089598P.
98US-0089653P.
98US-0089908P.
98US-0089952P.
98US-0090246P.
98US-0090252P.
98US-0090254P.
```

| | | | |
|-----------------|----------------|--|--|
| PR 24-JUN-1998; | 98US-0090429P. | PR 29-SEP-1998; | 98US-0102207P. |
| PR 24-JUN-1998; | 98US-0090435P. | PR 29-SEP-1998; | 98US-0102240P. |
| PR 24-JUN-1998; | 98US-0090444P. | PR 29-SEP-1998; | 98US-0102330P. |
| PR 24-JUN-1998; | 98US-0090461P. | PR 29-SEP-1998; | 98US-0102331P. |
| PR 24-JUN-1998; | 98US-0090535P. | PR 30-SEP-1998; | 98US-0102487P. |
| PR 24-JUN-1998; | 98US-0090540P. | PR 30-SEP-1998; | 98US-0102570P. |
| PR 25-JUN-1998; | 98US-0090676P. | PR 30-SEP-1998; | 98US-0102571P. |
| PR 25-JUN-1998; | 98US-0090678P. | PR 01-OCT-1998; | 98US-0102684P. |
| PR 25-JUN-1998; | 98US-0090688P. | PR 01-OCT-1998; | 98US-0102687P. |
| PR 25-JUN-1998; | 98US-0090690P. | PR 02-OCT-1998; | 98US-0102965P. |
| PR 25-JUN-1998; | 98US-0090694P. | PR 02-OCT-1998; | 98US-0102965P. |
| PR 25-JUN-1998; | 98US-0090695P. | PR 06-OCT-1998; | 98US-0103258P. |
| PR 25-JUN-1998; | 98US-0090696P. | PR 06-OCT-1998; | 98US-0103449P. |
| PR 25-JUN-1998; | 98US-0090696P. | PR 07-OCT-1998; | 98US-00168978. |
| PR 26-JUN-1998; | 98US-00105413. | Query Match 35.5%; Score 150; DB 6; Length 440; | |
| PR 26-JUN-1998; | 98US-0090862P. | Best Local Similarity 100.0%; Pred. No. 7.7e-135; | |
| PR 26-JUN-1998; | 98US-0090863P. | Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0; | |
| PR 26-JUN-1998; | 98US-0091010P. | | |
| PR 01-JUL-1998; | 98US-0091359P. | QY 16 | SAAALIPTGGQNLFTKDVTVIEGEVATISCVNKSDDSVIQLLNPNRQTIYFRDPRPLK 75 |
| PR 01-JUL-1998; | 98US-0091544P. | DB 32 | SAAALIPTGGQNLFTKDVTVIEGEVATISCVNKSDDSVIQLLNPNRQTIYFRDPRPLK 91 |
| PR 02-JUL-1998; | 98US-0091478P. | QY 76 | DSRFQLNFSSSELKVSILTNVSIISDEGRYFCQLYTDPPQESYTTITVLVPPRNLMDIQK 135 |
| PR 02-JUL-1998; | 98US-0091626P. | DB 92 | DSRFQLNFSSSELKVSILTNVSIISDEGRYFCQLYTDPPQESYTTITVLVPPRNLMDIQK 151 |
| PR 02-JUL-1998; | 98US-0091628P. | QY 136 | DTAVEGEIEVNCTAMASKPATTTIRWPKGN 165 |
| PR 02-JUL-1998; | 98US-0091632P. | DB 152 | DTAVEGEIEVNCTAMASKPATTTIRWPKGN 181 |
| PR 02-JUL-1998; | 98US-0094006P. | | |
| PR 04-AUG-1998; | 98US-0095282P. | | |
| PR 10-AUG-1998; | 98US-0095998P. | | |
| PR 10-AUG-1998; | 98US-0096012P. | | |
| PR 17-AUG-1998; | 98US-0096757P. | | |
| PR 17-AUG-1998; | 98US-0096766P. | | |
| PR 17-AUG-1998; | 98US-0096867P. | | |
| PR 17-AUG-1998; | 98US-0096891P. | | |
| PR 17-AUG-1998; | 98US-0096897P. | | |
| PR 18-AUG-1998; | 98US-0096949P. | | |
| PR 18-AUG-1998; | 98US-0096959P. | | |
| PR 18-AUG-1998; | 98US-0097022P. | | |
| PR 18-AUG-1998; | 98US-0097952P. | | |
| PR 26-AUG-1998; | 98US-0097954P. | | |
| PR 26-AUG-1998; | 98US-0097955P. | | |
| PR 26-AUG-1998; | 98US-0097971P. | | |
| PR 26-AUG-1998; | 98US-0097974P. | | |
| PR 26-AUG-1998; | 98US-0098014P. | | |
| PR 01-SEP-1998; | 98US-0098716P. | | |
| PR 01-SEP-1998; | 98US-0098723P. | | |
| PR 02-SEP-1998; | 98US-0098803P. | | |
| PR 02-SEP-1998; | 98US-0098821P. | | |
| PR 02-SEP-1998; | 98US-0098843P. | | |
| PR 09-SEP-1998; | 98US-0099602P. | | |
| PR 10-SEP-1998; | 98US-0099741P. | | |
| PR 10-SEP-1998; | 98US-0099754P. | | |
| PR 10-SEP-1998; | 98US-0099763P. | | |
| PR 10-SEP-1998; | 98US-0099812P. | | |
| PR 15-SEP-1998; | 98US-0100388P. | | |
| PR 16-SEP-1998; | 98US-0100662P. | | |
| PR 16-SEP-1998; | 98US-0100664P. | | |
| PR 16-SEP-1998; | 98US-0101751P. | | |
| PR 16-SEP-1998; | 98WO-US019330. | | |
| PR 17-SEP-1998; | 98US-0100683P. | | |
| PR 17-SEP-1998; | 98US-0100684P. | | |
| PR 17-SEP-1998; | 98US-0100919P. | | |
| PR 17-SEP-1998; | 98US-0100930P. | | |
| PR 18-SEP-1998; | 98US-0100849P. | | |
| PR 18-SEP-1998; | 98US-0101014P. | | |
| PR 18-SEP-1998; | 98US-0101058P. | | |
| PR 23-SEP-1998; | 98US-0101471P. | | |
| PR 23-SEP-1998; | 98US-0101472P. | | |
| PR 23-SEP-1998; | 98US-0101475P. | | |
| PR 23-SEP-1998; | 98US-0101477P. | | |
| PR 24-SEP-1998; | 98US-0101738P. | | |
| PR 24-SEP-1998; | 98US-0101739P. | | |
| PR 24-SEP-1998; | 98US-0101743P. | | |
| PR 24-SEP-1998; | 98US-0101922P. | | |
| PR 25-SEP-1998; | 98US-0101786P. | | |
| PR 29-SEP-1997; | 97US-0059263P. | | |
| PR 18-SEP-1997; | 97US-0059266P. | | |
| PR 17-OCT-1997; | 97US-0062250P. | | |
| PR 21-OCT-1997; | 97US-0063486P. | | |
| PR 24-OCT-1997; | 97US-0063120P. | | |
| PR 28-OCT-1997; | 97US-0063121P. | | |
| PR 28-OCT-1997; | 97US-0063540P. | | |
| PR 28-OCT-1997; | 97US-0063541P. | | |
| PR 28-OCT-1997; | 97US-0063544P. | | |
| PR 28-OCT-1997; | 97US-0063564P. | | |
| PR 29-OCT-1997; | 97US-0063734P. | | |
| PR 31-OCT-1997; | 97US-0063870P. | | |
| PR 13-NOV-1997; | 97US-0064103P. | | |
| PR 21-NOV-1997; | 97US-0065311P. | | |
| PR 24-NOV-1997; | 97US-0066120P. | | |
| PR 24-NOV-1997; | 97US-0066466P. | | |
| PR 11-DEC-1997; | 97US-0066772P. | | |
| PR 11-DEC-1997; | 97US-0069335P. | | |

PR 12-DEC-1997; 97US-0069425P.
PR 17-DEC-1997; 97US-0059870P.
PR 18-DEC-1997; 97US-0068017P.
PR 10-MAR-1998; 98US-0077450P.
PR 11-MAR-1998; 98US-0077632P.
PR 11-MAR-1998; 98US-0077649P.
PR 20-MAR-1998; 98US-0078886P.
PR 20-MAR-1998; 98US-0078939P.
PR 27-MAR-1998; 98US-0079664P.
PR 27-MAR-1998; 98US-0079786P.
PR 31-MAR-1998; 98US-0080107P.
PR 31-MAR-1998; 98US-0080194P.
PR 01-APR-1998; 98US-0080327P.
PR 01-APR-1998; 98US-0080333P.
PR 08-APR-1998; 98US-0081049P.
PR 08-APR-1998; 98US-0081070P.
PR 09-APR-1998; 98US-0081195P.
PR 15-APR-1998; 98US-0081838P.
PR 21-APR-1998; 98US-0082568P.
PR 21-APR-1998; 98US-0082569P.
PR 22-APR-1998; 98US-0082704P.
PR 22-APR-1998; 98US-0082797P.
PR 28-APR-1998; 98US-0083322P.
PR 29-APR-1998; 98US-0083495P.
PR 29-APR-1998; 98US-0083496P.
PR 29-APR-1998; 98US-0083499P.
PR 29-APR-1998; 98US-0083559P.
PR 06-MAY-1998; 98US-0084366P.
PR 07-MAY-1998; 98US-0084414P.
PR 07-MAY-1998; 98US-0084640P.
PR 15-MAY-1998; 98US-0085579P.
PR 15-MAY-1998; 98US-0085580P.
PR 15-MAY-1998; 98US-0085582P.
PR 15-MAY-1998; 98US-0086023P.
PR 22-MAY-1998; 98US-0086392P.
PR 22-MAY-1998; 98US-0086486P.
PR 28-MAY-1998; 98US-0087098P.
PR 28-MAY-1998; 98US-0087208P.
PR 02-JUN-1998; 98US-0086099P.
PR 02-JUN-1998; 98US-0087759P.
PR 03-JUN-1998; 98US-0087827P.
PR 04-JUN-1998; 98US-0088025P.
PR 04-JUN-1998; 98US-0088028P.
PR 04-JUN-1998; 98US-0088029P.
PR 04-JUN-1998; 98US-0088033P.
PR 05-JUN-1998; 98US-0088157P.
PR 05-JUN-1998; 98US-0088202P.
PR 05-JUN-1998; 98US-0088212P.
PR 05-JUN-1998; 98US-0088217P.
PR 09-JUN-1998; 98US-0088655P.
PR 10-JUN-1998; 98US-0088722P.
PR 10-JUN-1998; 98US-0088738P.
PR 10-JUN-1998; 98US-0088740P.
PR 10-JUN-1998; 98US-0088811P.
PR 10-JUN-1998; 98US-0088824P.
PR 10-JUN-1998; 98US-0088825P.
PR 10-JUN-1998; 98US-0088826P.
PR 11-JUN-1998; 98US-0088861P.
PR 11-JUN-1998; 98US-0088863P.
PR 11-JUN-1998; 98US-0088876P.
PR 12-JUN-1998; 98US-0089090P.
PR 12-JUN-1998; 98US-0089105P.
PR 16-JUN-1998; 98US-0089512P.
PR 16-JUN-1998; 98US-0089514P.
PR 17-JUN-1998; 98US-0089538P.
PR 17-JUN-1998; 98US-0089598P.
PR 17-JUN-1998; 98US-0089653P.
PR 18-JUN-1998; 98US-0089908P.
PR 19-JUN-1998; 98US-0089922P.
PR 22-JUN-1998; 98US-0090246P.
PR 22-JUN-1998; 98US-0090252P.
PR 22-JUN-1998; 98US-0090254P.
PR 24-JUN-1998; 98US-0090429P.
PR 24-JUN-1998; 98US-0090435P.
PR 24-JUN-1998; 98US-0090444P.
PR 24-JUN-1998; 98US-0090461P.
PR 24-JUN-1998; 98US-0090535P.
PR 24-JUN-1998; 98US-0090540P.
PR 25-JUN-1998; 98US-0090676P.
PR 25-JUN-1998; 98US-0090678P.
PR 25-JUN-1998; 98US-0090688P.
PR 25-JUN-1998; 98US-0090690P.
PR 25-JUN-1998; 98US-0090694P.
PR 25-JUN-1998; 98US-0090695P.
PR 25-JUN-1998; 98US-0090696P.
PR 26-JUN-1998; 98US-00105413.
PR 26-JUN-1998; 98US-0090862P.
PR 26-JUN-1998; 98US-0090863P.
PR 26-JUN-1998; 98US-0091010P.
PR 01-JUL-1998; 98US-0091359P.
PR 01-JUL-1998; 98US-0091544P.
PR 02-JUL-1998; 98US-0091478P.
PR 02-JUL-1998; 98US-0091486P.
PR 02-JUL-1998; 98US-0091626P.
PR 02-JUL-1998; 98US-0091628P.
PR 02-JUL-1998; 98US-0091632P.
PR 24-JUL-1998; 98US-0094006P.
PR 04-AUG-1998; 98US-0095282P.
PR 10-AUG-1998; 98US-0095998P.
PR 10-AUG-1998; 98US-0096012P.
PR 17-AUG-1998; 98US-0096757P.
PR 17-AUG-1998; 98US-0096766P.
PR 17-AUG-1998; 98US-0096867P.
PR 17-AUG-1998; 98US-0096891P.
PR 17-AUG-1998; 98US-0096897P.
PR 18-AUG-1998; 98US-0096949P.
PR 18-AUG-1998; 98US-0096959P.
PR 18-AUG-1998; 98US-0097022P.
PR 26-AUG-1998; 98US-0097952P.
PR 26-AUG-1998; 98US-0097954P.
PR 26-AUG-1998; 98US-0097955P.
PR 26-AUG-1998; 98US-0097971P.
PR 26-AUG-1998; 98US-0097974P.
PR 26-AUG-1998; 98US-0098014P.
PR 01-SEP-1998; 98US-0098716P.
PR 01-SEP-1998; 98US-0098723P.
PR 02-SEP-1998; 98US-0098803P.
PR 02-SEP-1998; 98US-0098821P.
PR 02-SEP-1998; 98US-0098843P.
PR 03-SEP-1998; 98US-0099602P.
PR 10-SEP-1998; 98US-0099741P.
PR 10-SEP-1998; 98US-0099754P.
PR 10-SEP-1998; 98US-0099763P.
PR 10-SEP-1998; 98US-0099812P.
PR 15-SEP-1998; 98US-0100388P.
PR 16-SEP-1998; 98US-0100662P.
PR 16-SEP-1998; 98US-0100664P.
PR 16-SEP-1998; 98US-0101751P.
PR 16-SEP-1998; 98US-0101751P.
PR 16-SEP-1998; 98US-0101751P.
PR 17-SEP-1998; 98US-0100683P.
PR 17-SEP-1998; 98US-0100684P.
PR 17-SEP-1998; 98US-0100919P.
PR 17-SEP-1998; 98US-0100930P.
PR 18-SEP-1998; 98US-0100849P.
PR 18-SEP-1998; 98US-0101014P.
PR 18-SEP-1998; 98US-0101068P.
PR 23-SEP-1998; 98US-0101471P.
PR 23-SEP-1998; 98US-0101472P.
PR 23-SEP-1998; 98US-0101475P.
PR 23-SEP-1998; 98US-0101477P.
PR 24-SEP-1998; 98US-0101738P.
PR 24-SEP-1998; 98US-0101739P.
PR 24-SEP-1998; 98US-0101743P.

| | | | | | |
|--|--|---|----|--------------|----------------|
| PR | 24-SEP-1998; | 98US-0101922P. | PR | 24-NOV-1997; | 97US-006466P. |
| PR | 25-SEP-1998; | 98US-0101786P. | PR | 24-NOV-1997; | 97US-0066772P. |
| PR | 29-SEP-1998; | 98US-010207P. | PR | 11-DEC-1997; | 97US-0069335P. |
| PR | 29-SEP-1998; | 98US-0102240P. | PR | 12-DEC-1997; | 97US-0069425P. |
| PR | 23-SEP-1998; | 98US-0102330P. | PR | 17-DEC-1997; | 97US-0069870P. |
| PR | 29-SEP-1998; | 98US-0102331P. | PR | 18-DEC-1997; | 97US-0068017P. |
| PR | 30-SEP-1998; | 98US-0102487P. | PR | 10-MAR-1998; | 98US-0077450P. |
| PR | 30-SEP-1998; | 98US-0102570P. | PR | 11-MAR-1998; | 98US-0077632P. |
| PR | 30-SEP-1998; | 98US-0102571P. | PR | 11-MAR-1998; | 98US-0077649P. |
| PR | 01-OCT-1998; | 98US-0102684P. | PR | 20-MAR-1998; | 98US-0078866P. |
| PR | 01-OCT-1998; | 98US-0102687P. | PR | 20-MAR-1998; | 98US-0078939P. |
| PR | 02-OCT-1998; | 98US-0102965P. | PR | 27-MAR-1998; | 98US-0079664P. |
| PR | 06-OCT-1998; | 98US-0103258P. | PR | 27-MAR-1998; | 98US-0079786P. |
| PR | 06-OCT-1998; | 98US-0103449P. | PR | 31-MAR-1998; | 98US-0080107P. |
| Query Match 35.5%; Score 150; DB 6; Length 440; | | | | | 98US-0080194P. |
| Best Local Similarity 100.0%; Pred. No. 7.7e-135; | | | | | 98US-0080327P. |
| Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0; | | | | | 98US-0080333P. |
| Qy | 16 | SAALIPGTGGQQLFTKDVTVIEGEVATISQVKNKSDSVIQLNPNRQTIYFRDPRPLK 75 | PR | 01-APR-1998; | 98US-0080333P. |
| Db | 32 | SAALIPGTGGQQLFTKDVTVIEGEVATISQVKNKSDSVIQLNPNRQTIYFRDPRPLK 91 | PR | 08-APR-1998; | 98US-0081049P. |
| Qy | 76 | DSRFQLLNFSSSELKVLTVNSISDEGRYFCQLYTDPQESYTTITVLVPPRNLMDIQK 135 | PR | 08-APR-1998; | 98US-0081070P. |
| Db | 92 | DSRFQLLNFSSSELKVLTVNSISDEGRYFCQLYTDPQESYTTITVLVPPRNLMDIQK 151 | PR | 15-APR-1998; | 98US-0081195P. |
| Qy | 136 | DTAVEGEIEIVNCTAMASKPATIRWFKGN 165 | PR | 15-APR-1998; | 98US-0081838P. |
| Db | 152 | DTAVEGEIEIVNCTAMASKPATIRWFKGN 181 | PR | 21-APR-1998; | 98US-0082568P. |
| RESULT 53 | | | | | 98US-0082569P. |
| ABR59201 | | | | | 98US-0082704P. |
| ID | ABR59201 standard; protein; 440 AA. | | | | 98US-0082797P. |
| XX | AC ABR59201; | | | | 98US-0083322P. |
| XX | DT 28-JUL-2003 (first entry) | | | | 98US-0083495P. |
| XX | Human secreted polypeptide PRO355, SEQ ID NO:34. | | | | 98US-0083496P. |
| DE | Human; PRO; secreted protein; transmembrane protein; | | | | 98US-0083499P. |
| KW | extracellular domain; tumour necrosis factor-alpha; TNF-alpha; | | | | 98US-0083559P. |
| KW | chondrocyte; proliferation; differentiation; cartilage disorder; | | | | 98US-0084366P. |
| KW | bone disorder; arthritis; sports injury; cancer; tumour; diagnosis; | | | | 98US-0084414P. |
| KW | adrenal tumour; lung; colon; breast; prostate; kidney; rectum; cervix; | | | | 98US-0084639P. |
| KW | liver; drug screening; transgenic animal; genetic analysis; | | | | 98US-0084640P. |
| KW | antiarthritic; vulnery; gene therapy. | | | | 98US-0084643P. |
| XX | Homo sapiens. | | | | 98US-0085580P. |
| XX | US2003027275-A1. | | | | 98US-0085582P. |
| XX | 06-FEB-2003. | | | | 98US-0085700P. |
| XX | 20-JUN-2002; 2002US-00176918. | | | | 98US-0086023P. |
| XX | 18-SEP-1997; 97US-0059263P. | | | | 98US-0086392P. |
| PR | 18-SEP-1997; 97US-0059266P. | | | | 98US-0086486P. |
| PR | 17-OCT-1997; 97US-0062250P. | | | | 98US-0087098P. |
| PR | 21-OCT-1997; 97US-0063486P. | | | | 98US-0087208P. |
| PR | 24-OCT-1997; 97US-0063120P. | | | | 98US-0087609P. |
| PR | 24-OCT-1997; 97US-0063121P. | | | | 98US-0087759P. |
| PR | 28-OCT-1997; 97US-0063540P. | | | | 98US-0087827P. |
| PR | 28-OCT-1997; 97US-0063541P. | | | | 98US-0088025P. |
| PR | 28-OCT-1997; 97US-0063544P. | | | | 98US-0088028P. |
| PR | 28-OCT-1997; 97US-0063564P. | | | | 98US-0088029P. |
| PR | 29-OCT-1997; 97US-0063734P. | | | | 98US-0088033P. |
| PR | 31-OCT-1997; 97US-0063870P. | | | | 98US-0088326P. |
| PR | 31-OCT-1997; 97US-0064103P. | | | | 98US-0088326P. |
| PR | 13-NOV-1997; 97US-0065311P. | | | | 98US-0088326P. |
| PR | 21-NOV-1997; 97US-0066120P. | | | | 98US-0088611P. |
| PR | 18-SEP-1997; 97US-0059263P. | | | | 98US-0088611P. |
| PR | 17-OCT-1997; 97US-0062250P. | | | | 98US-0088611P. |
| PR | 21-OCT-1997; 97US-0063486P. | | | | 98US-0088611P. |
| PR | 24-OCT-1997; 97US-0063120P. | | | | 98US-0088611P. |
| PR | 24-OCT-1997; 97US-0063121P. | | | | 98US-0088611P. |
| PR | 28-OCT-1997; 97US-0063540P. | | | | 98US-0088611P. |
| PR | 28-OCT-1997; 97US-0063541P. | | | | 98US-0088611P. |
| PR | 28-OCT-1997; 97US-0063544P. | | | | 98US-0088611P. |
| PR | 29-OCT-1997; 97US-0063734P. | | | | 98US-0088611P. |
| PR | 31-OCT-1997; 97US-0063870P. | | | | 98US-0088611P. |
| PR | 31-OCT-1997; 97US-0064103P. | | | | 98US-0088611P. |
| PR | 13-NOV-1997; 97US-0065311P. | | | | 98US-0088611P. |
| PR | 21-NOV-1997; 97US-0066120P. | | | | 98US-0088611P. |

```
PR 17-JUN-1998; 98US-0089653P.
PR 18-JUN-1998; 98US-0089908P.
PR 19-JUN-1998; 98US-0089922P.
PR 22-JUN-1998; 98US-0090246P.
PR 22-JUN-1998; 98US-0090252P.
PR 22-JUN-1998; 98US-0090254P.
PR 24-JUN-1998; 98US-0090429P.
PR 24-JUN-1998; 98US-0090435P.
PR 24-JUN-1998; 98US-0090444P.
PR 24-JUN-1998; 98US-0090461P.
PR 24-JUN-1998; 98US-0090535P.
PR 24-JUN-1998; 98US-0090540P.
PR 25-JUN-1998; 98US-0090676P.
PR 25-JUN-1998; 98US-0090688P.
PR 25-JUN-1998; 98US-0090690P.
PR 25-JUN-1998; 98US-0090694P.
PR 25-JUN-1998; 98US-0090695P.
PR 25-JUN-1998; 98US-0090696P.
PR 26-JUN-1998; 98US-00105413.
PR 26-JUN-1998; 98US-0090862P.
PR 26-JUN-1998; 98US-0090863P.
PR 26-JUN-1998; 98US-0091010P.
PR 01-JUL-1998; 98US-0091359P.
PR 01-JUL-1998; 98US-0091544P.
PR 02-JUL-1998; 98US-0091478P.
PR 02-JUL-1998; 98US-0091486P.
PR 02-JUL-1998; 98US-0091626P.
PR 02-JUL-1998; 98US-0091628P.
PR 02-JUL-1998; 98US-0091632P.
PR 02-JUL-1998; 98US-0094006P.
PR 04-AUG-1998; 98US-0095282P.
PR 10-AUG-1998; 98US-0095998P.
PR 10-AUG-1998; 98US-0096012P.
PR 17-AUG-1998; 98US-0096757P.
PR 17-AUG-1998; 98US-0096766P.
PR 17-AUG-1998; 98US-0096867P.
PR 17-AUG-1998; 98US-0096891P.
PR 17-AUG-1998; 98US-0096897P.
PR 18-AUG-1998; 98US-0096949P.
PR 18-AUG-1998; 98US-0096959P.
PR 18-AUG-1998; 98US-0097022P.
PR 26-AUG-1998; 98US-0097952P.
PR 26-AUG-1998; 98US-0097954P.
PR 26-AUG-1998; 98US-0097955P.
PR 26-AUG-1998; 98US-0097971P.
PR 26-AUG-1998; 98US-0097974P.
PR 26-AUG-1998; 98US-0098014P.
PR 01-SEP-1998; 98US-0098716P.
PR 01-SEP-1998; 98US-0098723P.
PR 02-SEP-1998; 98US-0098803P.
PR 02-SEP-1998; 98US-0098821P.
PR 02-SEP-1998; 98US-0098843P.
PR 09-SEP-1998; 98US-0099602P.
PR 10-SEP-1998; 98US-0099741P.
PR 10-SEP-1998; 98US-0099754P.
PR 10-SEP-1998; 98US-0099763P.
PR 10-SEP-1998; 98US-0099812P.
PR 15-SEP-1998; 98US-0100388P.
PR 16-SEP-1998; 98US-0100662P.
PR 16-SEP-1998; 98US-0100664P.
PR 16-SEP-1998; 98US-0101751P.
PR 16-SEP-1998; 98WO-US019330.
PR 17-SEP-1998; 98US-0100683P.
PR 17-SEP-1998; 98US-0100684P.
PR 17-SEP-1998; 98US-0100919P.
PR 17-SEP-1998; 98US-0100930P.
PR 18-SEP-1998; 98US-0100849P.
PR 18-SEP-1998; 98US-0101014P.
PR 18-SEP-1998; 98US-0101068P.
PR 23-SEP-1998; 98US-0101471P.
PR 23-SEP-1998; 98US-0101472P.
PR 23-SEP-1998; 98US-0101475P.
PR 23-SEP-1998; 98US-0101476P.
PR 23-SEP-1998; 98US-0101477P.
PR 23-SEP-1998; 98US-0101738P.
PR 24-SEP-1998; 98US-0101739P.
PR 24-SEP-1998; 98US-0101743P.
PR 24-SEP-1998; 98US-0101922P.
PR 25-SEP-1998; 98US-0101786P.
PR 29-SEP-1998; 98US-0102207P.
PR 29-SEP-1998; 98US-0102240P.
PR 29-SEP-1998; 98US-0102330P.
PR 29-SEP-1998; 98US-0102331P.
PR 30-SEP-1998; 98US-0102487P.
PR 30-SEP-1998; 98US-0102570P.
PR 30-SEP-1998; 98US-0102571P.
PR 01-OCT-1998; 98US-0102684P.
PR 01-OCT-1998; 98US-0102687P.
Query Match 35.5%; Score 150; DB 6; Length 440;
Best Local Similarity 100.0%; Pred. No. 7,7e-135;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 16 SAAALPTGQNLFTKDVTVIEGEVATISQVKNKSDSVIQLNPNRQTIYFRDPRPLK 75
Db 32 SAAALPTGQNLFTKDVTVIEGEVATISQVKNKSDSVIQLNPNRQTIYFRDPRPLK 91
Qy 76 DSRFQLNFSSELKVSLSLTVNSISDEGRYECOLYTDPPQESYTTITVLVPPNLMIDIQK 135
Db 92 DSRFQLNFSSELKVSLSLTVNSISDEGRYECOLYTDPPQESYTTITVLVPPNLMIDIQK 151
Qy 136 DTAVEGEIEVNCVTAMASKPATIRWFKGN 165
Db 152 DTAVEGEIEVNCVTAMASKPATIRWFKGN 181
RESULT 54
ABO09263
ID ABO09263 standard; protein; 440 AA.
XX ABO09263;
XX 17-AUG-2003 (first entry)
DE Human secreted/transmembrane protein (PRO) #17.
KW Human; secreted and transmembrane protein; PRO; TNF-alpha;
KW tumour necrosis factor alpha; chondrocyte cell; tumour; gene therapy;
KW tissue typing; adrenal tumour; lung tumour; colon tumour; breast tumour;
KW prostate tumour; rectal tumour; cervical tumour; liver tumour.
XX Homo sapiens.
XX US2003027324-A1.
PD 06-FEB-2003.
XX 21-JUN-2002; 2002US-00176991.
XX 18-SEP-1997; 97US-0059263P.
PR 18-SEP-1997; 97US-0059266P.
PR 17-OCT-1997; 97US-0062250P.
PR 21-OCT-1997; 97US-0063486P.
PR 24-OCT-1997; 97US-0063120P.
PR 24-OCT-1997; 97US-0063121P.
PR 28-OCT-1997; 97US-0063540P.
PR 28-OCT-1997; 97US-0063541P.
PR 28-OCT-1997; 97US-0063544P.
PR 28-OCT-1997; 97US-0063564P.
PR 29-OCT-1997; 97US-0063734P.
PR 31-OCT-1997; 97US-0063870P.
PR 31-OCT-1997; 97US-0064103P.
PR 13-NOV-1997; 97US-0065311P.
PR 21-NOV-1997; 97US-0066120P.
PR 24-NOV-1997; 97US-0066466P.
PR 24-NOV-1997; 97US-0066772P.
```

PR 11-DEC-1997; 97US-00693335P.
PR 12-DEC-1997; 97US-00694252P.
PR 17-DEC-1997; 97US-00698707P.
PR 18-DEC-1997; 97US-00680117P.
PR 10-MAR-1998; 98US-00774509P.
PR 11-MAR-1998; 98US-00776322P.
PR 11-MAR-1998; 98US-00776499P.
PR 20-MAR-1998; 98US-00788866P.
PR 20-MAR-1998; 98US-00789339P.
PR 27-MAR-1998; 98US-00796644P.
PR 27-MAR-1998; 98US-00797866P.
PR 31-MAR-1998; 98US-00801077P.
PR 31-MAR-1998; 98US-00801944P.
PR 01-APR-1998; 98US-00803272P.
PR 01-APR-1998; 98US-00803333P.
PR 08-APR-1998; 98US-00810499P.
PR 08-APR-1998; 98US-00810709P.
PR 09-APR-1998; 98US-00811959P.
PR 15-APR-1998; 98US-00818388P.
PR 21-APR-1998; 98US-00825688P.
PR 21-APR-1998; 98US-00825699P.
PR 22-APR-1998; 98US-00827044P.
PR 22-APR-1998; 98US-00827977P.
PR 28-APR-1998; 98US-00833222P.
PR 28-APR-1998; 98US-00834959P.
PR 29-APR-1998; 98US-00834966P.
PR 29-APR-1998; 98US-00834999P.
PR 29-APR-1998; 98US-00835599P.
PR 05-MAY-1998; 98US-00843666P.
PR 06-MAY-1998; 98US-00844144P.
PR 07-MAY-1998; 98US-00846399P.
PR 07-MAY-1998; 98US-00846404P.
PR 07-MAY-1998; 98US-00846433P.
PR 15-MAY-1998; 98US-00855799P.
PR 15-MAY-1998; 98US-00855809P.
PR 15-MAY-1998; 98US-00855822P.
PR 15-MAY-1998; 98US-00857009P.
PR 18-MAY-1998; 98US-00860233P.
PR 22-MAY-1998; 98US-00863932P.
PR 22-MAY-1998; 98US-00864866P.
PR 28-MAY-1998; 98US-00870988P.
PR 28-MAY-1998; 98US-00872088P.
PR 02-JUN-1998; 98US-00876099P.
PR 02-JUN-1998; 98US-00877599P.
PR 03-JUN-1998; 98US-00878277P.
PR 04-JUN-1998; 98US-00880252P.
PR 04-JUN-1998; 98US-00880288P.
PR 04-JUN-1998; 98US-00880299P.
PR 04-JUN-1998; 98US-00880333P.
PR 04-JUN-1998; 98US-00883266P.
PR 05-JUN-1998; 98US-00881677P.
PR 05-JUN-1998; 98US-00882022P.
PR 05-JUN-1998; 98US-00882122P.
PR 05-JUN-1998; 98US-00882177P.
PR 09-JUN-1998; 98US-00886655P.
PR 10-JUN-1998; 98US-00887222P.
PR 10-JUN-1998; 98US-00887388P.
PR 10-JUN-1998; 98US-00887404P.
PR 10-JUN-1998; 98US-00888111P.
PR 10-JUN-1998; 98US-00888244P.
PR 10-JUN-1998; 98US-00888255P.
PR 10-JUN-1998; 98US-00888266P.
PR 11-JUN-1998; 98US-00888616P.
PR 11-JUN-1998; 98US-00888633P.
PR 11-JUN-1998; 98US-00888766P.
PR 12-JUN-1998; 98US-00890909P.
PR 12-JUN-1998; 98US-00891059P.
PR 16-JUN-1998; 98US-00895122P.
PR 16-JUN-1998; 98US-00895144P.
PR 17-JUN-1998; 98US-00895388P.
PR 17-JUN-1998; 98US-00895988P.
PR 17-JUN-1998; 98US-00896533P.
PR 18-JUN-1998; 98US-00899908P.

PR 19-JUN-1998; 98US-00899952P.
PR 22-JUN-1998; 98US-00902466P.
PR 22-JUN-1998; 98US-00902522P.
PR 22-JUN-1998; 98US-00902544P.
PR 24-JUN-1998; 98US-00904299P.
PR 24-JUN-1998; 98US-00904359P.
PR 24-JUN-1998; 98US-00904444P.
PR 24-JUN-1998; 98US-00904611P.
PR 24-JUN-1998; 98US-00905359P.
PR 24-JUN-1998; 98US-00905409P.
PR 25-JUN-1998; 98US-00906766P.
PR 25-JUN-1998; 98US-00906788P.
PR 25-JUN-1998; 98US-00906888P.
PR 25-JUN-1998; 98US-00906909P.
PR 25-JUN-1998; 98US-00906944P.
PR 25-JUN-1998; 98US-00906959P.
PR 25-JUN-1998; 98US-00906966P.
PR 26-JUN-1998; 98US-00105413.
PR 26-JUN-1998; 98US-00908622P.
PR 26-JUN-1998; 98US-00908633P.
PR 26-JUN-1998; 98US-00910109P.
PR 01-JUL-1998; 98US-00913599P.
PR 01-JUL-1998; 98US-00915444P.
PR 02-JUL-1998; 98US-00914788P.
PR 02-JUL-1998; 98US-00914866P.
PR 02-JUL-1998; 98US-00916266P.
PR 02-JUL-1998; 98US-00916288P.
PR 02-JUL-1998; 98US-00916322P.
PR 24-JUL-1998; 98US-00940066P.
PR 04-AUG-1998; 98US-00952822P.
PR 10-AUG-1998; 98US-00959988P.
PR 10-AUG-1998; 98US-00960122P.
PR 17-AUG-1998; 98US-00967577P.
PR 17-AUG-1998; 98US-00967666P.
PR 17-AUG-1998; 98US-00968677P.
PR 17-AUG-1998; 98US-00968911P.
PR 17-AUG-1998; 98US-00968977P.
PR 18-AUG-1998; 98US-00969499P.
PR 18-AUG-1998; 98US-00969599P.
PR 18-AUG-1998; 98US-00970222P.
PR 26-AUG-1998; 98US-00979522P.
PR 26-AUG-1998; 98US-00979544P.
PR 26-AUG-1998; 98US-00979559P.
PR 26-AUG-1998; 98US-00979711P.
PR 26-AUG-1998; 98US-00979744P.
PR 26-AUG-1998; 98US-00980144P.
PR 01-SEP-1998; 98US-00987166P.
PR 01-SEP-1998; 98US-00987233P.
PR 02-SEP-1998; 98US-00988033P.
PR 02-SEP-1998; 98US-00988211P.
PR 02-SEP-1998; 98US-00988433P.
PR 09-SEP-1998; 98US-00996022P.
PR 10-SEP-1998; 98US-00997411P.
PR 10-SEP-1998; 98US-00997544P.
PR 10-SEP-1998; 98US-00997633P.
PR 10-SEP-1998; 98US-00998122P.
PR 15-SEP-1998; 98US-01003388P.
PR 16-SEP-1998; 98US-01006622P.
PR 16-SEP-1998; 98US-01006644P.
PR 16-SEP-1998; 98US-01017511P.
PR 16-SEP-1998; 98US-01017519P.
PR 16-SEP-1998; 98US-01019330.
PR 17-SEP-1998; 98US-01006833P.
PR 17-SEP-1998; 98US-01006844P.
PR 17-SEP-1998; 98US-01009199P.
PR 17-SEP-1998; 98US-01009309P.
PR 18-SEP-1998; 98US-01008499P.
PR 18-SEP-1998; 98US-01010144P.
PR 18-SEP-1998; 98US-01010688P.
PR 23-SEP-1998; 98US-01014711P.
PR 23-SEP-1998; 98US-01014722P.
PR 23-SEP-1998; 98US-01014759P.
PR 23-SEP-1998; 98US-01014777P.
PR 24-SEP-1998; 98US-01017388P.

```
PR 24-SEP-1998; 98US-0101739P.
PR 24-SEP-1998; 98US-0101743P.
PR 24-SEP-1998; 98US-0101922P.
PR 25-SEP-1998; 98US-0101786P.
PR 29-SEP-1998; 98US-0102207P.
PR 29-SEP-1998; 98US-0102240P.
PR 29-SEP-1998; 98US-0102330P.
PR 29-SEP-1998; 98US-0102331P.
PR 30-SEP-1998; 98US-0102487P.
PR 30-SEP-1998; 98US-0102570P.
PR 30-SEP-1998; 98US-0102571P.
PR 01-OCT-1998; 98US-0102684P.
PR 01-OCT-1998; 98US-0102687P.
PR 02-OCT-1998; 98US-0102965P.
PR 06-OCT-1998; 98US-0103258P.
PR 06-OCT-1998; 98US-0103449P.

Query Match 35.5%; Score 150; DB 6; Length 440;
Best Local Similarity 100.0%; Pred. No. 7.7e-135;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 16 SAALIPGTGQNLFTKDVTVIEGEVATISQVNVKSDSVIQLNPNRQTIYFRDPRPLK 75
Db 32 SAALIPGTGQNLFTKDVTVIEGEVATISQVNVKSDSVIQLNPNRQTIYFRDPRPLK 91
Qy 76 DSRFQLNFSSELKSLTNVSIISDEGRYFCOLYTDPPQESYTTITVLVPRNLMIDIQK 135
Db 92 DSRFQLNFSSELKSLTNVSIISDEGRYFCOLYTDPPQESYTTITVLVPRNLMIDIQK 151
Qy 136 DTAVEGEIEVNCVTAMASKPATIRWFKGN 165
Db 152 DTAVEGEIEVNCVTAMASKPATIRWFKGN 181

RESULT 55
ABO19127
ID ABO19127 standard; protein; 440 AA.
AC ABO19127;
DT 27-AUG-2003 (first entry)
XX
DE Novel human secreted and transmembrane protein PRO355.
XX
KW Human; secreted and transmembrane protein; PRO; chromosome mapping;
KW gene mapping; transgenic animal; knockout animal; tissue typing;
KW chromosome identification; tumour; chondrocyte proliferation;
KW chondrocyte differentiation; tumour necrosis factor-alpha release;
KW gene therapy.
XX
OS Homo sapiens.
XX
XX US2003036118-A1.
XX
XX 20-FEB-2003.
XX
XX 21-JUN-2002; 2002US-00176760.
XX
XX 26-JUN-1998; 98US-00105413.
XX
XX 16-SEP-1998; 98WO-US019330.
XX
XX 07-OCT-1998; 98US-00168378.
XX
XX 07-OCT-1998; 98WO-US021141.
XX
XX 06-NOV-1998; 98US-00187368.
XX
XX 01-DEC-1998; 98WO-US025108.
XX
XX 07-DEC-1998; 98US-00202054.
XX
XX 03-MAR-1999; 99US-00254311.
XX
XX 08-MAR-1999; 99WO-US005028.
XX
XX 14-MAY-1999; 99US-00311832.
XX
XX 14-MAY-1999; 99WO-US010733.
XX
XX 02-JUN-1999; 99WO-US012252.
XX
XX 25-AUG-1999; 99US-00380137.
XX
XX 25-AUG-1999; 99US-00380138.
XX
XX 25-AUG-1999; 99US-00380139.

PR 25-AUG-1999; 99US-00380142.
PR 01-SEP-1999; 99WO-US020111.
PR 13-SEP-1999; 99WO-US021090.
PR 18-OCT-1999; 99US-00403297.
PR 12-NOV-1999; 99US-00423844.
PR 01-DEC-1999; 99WO-US028301.
PR 02-DEC-1999; 99WO-US028551.
PR 30-DEC-1999; 99WO-US031274.
PR 03-JAN-2000; 2000WO-US000219.
PR 18-FEB-2000; 2000WO-US004341.
PR 22-FEB-2000; 2000WO-US004342.
PR 24-FEB-2000; 2000WO-US004414.
PR 01-MAR-2000; 2000WO-US005004.
PR 02-MAR-2000; 2000WO-US005601.
PR 15-MAR-2000; 2000WO-US005841.
PR 30-MAR-2000; 2000WO-US006884.
PR 17-MAY-2000; 2000WO-US013705.
PR 23-MAY-2000; 2000WO-US014042.
PR 30-MAY-2000; 2000WO-US014941.
PR 02-JUN-2000; 2000WO-US015264.
PR 28-JUL-2000; 2000WO-US020710.
PR 22-AUG-2000; 2000US-00644848.
PR 24-AUG-2000; 2000WO-US023328.
PR 18-SEP-2000; 2000US-00664610.
PR 18-SEP-2000; 2000US-00665350.
PR 08-NOV-2000; 2000US-00709238.
PR 01-DEC-2000; 2000WO-US032678.
PR 20-DEC-2000; 2000US-00747259.
PR 28-FEB-2001; 2000WO-US034956.
PR 22-MAR-2001; 2001WO-US006520.
PR 10-MAY-2001; 2001US-00816744.
PR 25-MAY-2001; 2001US-00854280.
PR 01-JUN-2001; 2001WO-US017800.
PR 05-JUN-2001; 2001US-00874503.
PR 20-JUN-2001; 2001WO-US019692.
PR 09-JUL-2001; 2001WO-US021735.
PR 18-JUL-2001; 2001US-00908827.
PR 30-JUL-2001; 2001US-00918585.
PR 08-AUG-2001; 2001US-00924419.
PR 13-AUG-2001; 2001US-00929404.
PR 16-AUG-2001; 2001US-00931836.
PR 28-AUG-2001; 2001US-00941992.
PR 29-AUG-2001; 2001WO-US027099.
PR 04-SEP-2001; 2001US-00946374.
PR 15-JAN-2002; 2002US-00052586.
XX
XX (GETH ) GENENTECH INC.
XX
XX Baker KP, Chen J, Desnoyers L, Goddard A, Godowski PJ, Gurney AL;
XX Pan J, Smith V, Watanabe CK, Wood WI, Zhang Z;
XX
XX WPI; 2003-402071/38.
XX
XX N-PSDB; ACD25374.
XX
XX
XX New secreted and transmembrane PRO polypeptides and nucleic acids, useful
XX in gene therapy, chromosome identification, tissue typing, for detecting
XX the presence of tumor in a mammal, or as hybridization probes in gene
XX mapping.
XX
XX Claim 11; Fig 34; 707pp; English.
XX
XX The invention describes a novel isolated PRO polypeptide. The PRO
XX polypeptide or anti-PRO antibody is useful for preparing a medicament for
XX treating a condition that is responsive to the PRO polypeptide or anti-
XX PRO antibody. The PRO nucleotide sequences are useful as hybridisation
XX probes in chromosome and gene mapping, or in generating antisense RNA and
XX DNA. PRO nucleic acids are also useful in preparing PRO polypeptides, in
XX assays to identify other proteins or molecules involved in binding
```

```
CC reaction, to generate transgenic animals or knockout animals, which in
CC turn are useful in the development and screening of therapeutically
CC useful reagents, for chromosome identification, and tissue typing. The
CC PRO polypeptides and nucleic acid molecules are also useful for detecting
CC the presence of tumour in a mammal, stimulating proliferation or
CC differentiation of chondrocyte cells, stimulating the release of tumour
CC necrosis factor-alpha from human blood, in gene therapy, or as molecular
CC weight markers for protein electrophoresis purposes. The anti-PRO
CC antibodies may be used in diagnostic assays for PRO, or for the affinity
CC purification of PRO from recombinant cell culture or natural sources.
CC This is the amino acid sequence of a novel human secreted and
CC transmembrane PRO polypeptide
XX
SQ Sequence 440 AA;
Query Match 35.5%; Score 150; DB 6; Length 440;
Best Local Similarity 100.0%; Pred. No. 7.7e-135; Indels 0; Gaps 0;
Matches 150; Conservative 0; Mismatches 0;
Qy 16 SAALAIPTGQNLFTKDVTVIEGEVATISCQVKNKSDSVIQLNPNRQTIYFRDPRPLK 75
Db 32 SAALAIPTGQNLFTKDVTVIEGEVATISCQVKNKSDSVIQLNPNRQTIYFRDPRPLK 91
Qy 76 DSRFQLNFSSELKSLTNVTSIDEGRYFCQLYTDPQESYTTITVLVPPRNLMDIQK 135
Db 92 DSRFQLNFSSELKSLTNVTSIDEGRYFCQLYTDPQESYTTITVLVPPRNLMDIQK 151
Qy 136 DTAVEGEIEVNCVTAMASKPATIRWFKGN 165
Db 152 DTAVEGEIEVNCVTAMASKPATIRWFKGN 181
RESULT 56
ABO11145
XX AC ABO11145 standard; protein; 440 AA.
XX AC ABO11145;
DT 25-AUG-2003 (first entry)
XX DE Human secreted/transmembrane protein (PRO) #17.
XX KW Human; secreted and transmembrane protein; PRO; TNF-alpha;
KW tumour necrosis factor alpha; chondrocyte cell; tumour; gene therapy;
KW tissue typing; adrenal tumour; lung tumour; colon tumour; breast tumour;
KW prostate tumour; rectal tumour; cervical tumour; liver tumour.
XX OS Homo sapiens.
XX PN US2003036123-A1.
XX PD 20-FEB-2003.
XX PF 25-JUN-2002; 2002US-00180551.
XX PR 18-SEP-1997; 97US-0059263P.
XX PR 18-SEP-1997; 97US-0059266P.
XX PR 17-OCT-1997; 97US-0062250P.
XX PR 21-OCT-1997; 97US-0063486P.
XX PR 24-OCT-1997; 97US-0063120P.
XX PR 24-OCT-1997; 97US-0063121P.
XX PR 28-OCT-1997; 97US-0063540P.
XX PR 28-OCT-1997; 97US-0063541P.
XX PR 28-OCT-1997; 97US-0063544P.
XX PR 28-OCT-1997; 97US-0063546P.
XX PR 29-OCT-1997; 97US-0083734P.
XX PR 31-OCT-1997; 97US-0063870P.
XX PR 13-NOV-1997; 97US-0064103P.
XX PR 21-NOV-1997; 97US-0065311P.
XX PR 24-NOV-1997; 97US-0066120P.
XX PR 24-NOV-1997; 97US-0066466P.
XX PR 24-NOV-1997; 97US-0066772P.
XX PR 11-DEC-1997; 97US-0069335P.
PR 12-DEC-1997; 97US-0069425P.
PR 17-DEC-1997; 97US-0069870P.
PR 18-DEC-1997; 97US-0068017P.
PR 10-MAR-1998; 98US-0077450P.
PR 11-MAR-1998; 98US-0077632P.
PR 11-MAR-1998; 98US-0077649P.
PR 20-MAR-1998; 98US-0078886P.
PR 20-MAR-1998; 98US-0078939P.
PR 27-MAR-1998; 98US-0079664P.
PR 27-MAR-1998; 98US-0079786P.
PR 31-MAR-1998; 98US-0080107P.
PR 31-MAR-1998; 98US-0080194P.
PR 01-APR-1998; 98US-0080327P.
PR 08-APR-1998; 98US-0080333P.
PR 08-APR-1998; 98US-0081049P.
PR 09-APR-1998; 98US-0081070P.
PR 09-APR-1998; 98US-0081195P.
PR 15-APR-1998; 98US-0081838P.
PR 21-APR-1998; 98US-0082568P.
PR 22-APR-1998; 98US-0082569P.
PR 22-APR-1998; 98US-0082704P.
PR 22-APR-1998; 98US-0082797P.
PR 28-APR-1998; 98US-0083322P.
PR 29-APR-1998; 98US-0083495P.
PR 29-APR-1998; 98US-0083496P.
PR 29-APR-1998; 98US-0083499P.
PR 29-APR-1998; 98US-0083559P.
PR 05-MAY-1998; 98US-0084366P.
PR 06-MAY-1998; 98US-0084414P.
PR 07-MAY-1998; 98US-0084639P.
PR 07-MAY-1998; 98US-0084640P.
PR 07-MAY-1998; 98US-0084643P.
PR 15-MAY-1998; 98US-0085579P.
PR 15-MAY-1998; 98US-0085580P.
PR 15-MAY-1998; 98US-0085582P.
PR 15-MAY-1998; 98US-0085700P.
PR 18-MAY-1998; 98US-0086023P.
PR 22-MAY-1998; 98US-0086392P.
PR 22-MAY-1998; 98US-0086486P.
PR 28-MAY-1998; 98US-0087098P.
PR 28-MAY-1998; 98US-0087208P.
PR 02-JUN-1998; 98US-0087609P.
PR 02-JUN-1998; 98US-0087759P.
PR 03-JUN-1998; 98US-0087827P.
PR 04-JUN-1998; 98US-0088025P.
PR 04-JUN-1998; 98US-0088028P.
PR 04-JUN-1998; 98US-0088029P.
PR 04-JUN-1998; 98US-0088033P.
PR 04-JUN-1998; 98US-0088326P.
PR 05-JUN-1998; 98US-0088167P.
PR 05-JUN-1998; 98US-0088202P.
PR 05-JUN-1998; 98US-0088212P.
PR 05-JUN-1998; 98US-0088217P.
PR 09-JUN-1998; 98US-0088655P.
PR 10-JUN-1998; 98US-0088722P.
PR 10-JUN-1998; 98US-0088738P.
PR 10-JUN-1998; 98US-0088740P.
PR 10-JUN-1998; 98US-0088811P.
PR 10-JUN-1998; 98US-0088824P.
PR 10-JUN-1998; 98US-0088825P.
PR 10-JUN-1998; 98US-0088826P.
PR 11-JUN-1998; 98US-0088861P.
PR 11-JUN-1998; 98US-0088863P.
PR 11-JUN-1998; 98US-0088876P.
PR 12-JUN-1998; 98US-0089090P.
PR 12-JUN-1998; 98US-0089105P.
PR 16-JUN-1998; 98US-0089512P.
PR 16-JUN-1998; 98US-0089514P.
PR 17-JUN-1998; 98US-0089538P.
PR 17-JUN-1998; 98US-0089598P.
PR 17-JUN-1998; 98US-0089653P.
PR 18-JUN-1998; 98US-0089908P.
PR 19-JUN-1998; 98US-0089952P.
```


PR 21-NOV-1997; 97US-0066120P.
PR 24-NOV-1997; 97US-0066466P.
PR 24-NOV-1997; 97US-0066772P.
PR 11-DEC-1997; 97US-0069335P.
PR 12-DEC-1997; 97US-0069425P.
PR 17-DEC-1997; 97US-0069870P.
PR 18-DEC-1997; 97US-0068017P.
PR 10-MAR-1998; 98US-0077450P.
PR 11-MAR-1998; 98US-0077632P.
PR 11-MAR-1998; 98US-0077649P.
PR 20-MAR-1998; 98US-0078866P.
PR 20-MAR-1998; 98US-0078939P.
PR 27-MAR-1998; 98US-0079664P.
PR 27-MAR-1998; 98US-0079786P.
PR 31-MAR-1998; 98US-0080107P.
PR 01-APR-1998; 98US-0080154P.
PR 01-APR-1998; 98US-0080327P.
PR 01-APR-1998; 98US-0080333P.
PR 08-APR-1998; 98US-0081049P.
PR 08-APR-1998; 98US-0081070P.
PR 09-APR-1998; 98US-0081195P.
PR 15-APR-1998; 98US-0081838P.
PR 21-APR-1998; 98US-0082568P.
PR 21-APR-1998; 98US-0082569P.
PR 22-APR-1998; 98US-0082704P.
PR 22-APR-1998; 98US-0082797P.
PR 28-APR-1998; 98US-0083322P.
PR 29-APR-1998; 98US-0083495P.
PR 29-APR-1998; 98US-0083496P.
PR 29-APR-1998; 98US-0083499P.
PR 29-APR-1998; 98US-0083559P.
PR 05-MAY-1998; 98US-0084366P.
PR 06-MAY-1998; 98US-0084414P.
PR 07-MAY-1998; 98US-0084619P.
PR 07-MAY-1998; 98US-0084640P.
PR 07-MAY-1998; 98US-0084643P.
PR 15-MAY-1998; 98US-0085579P.
PR 15-MAY-1998; 98US-0085580P.
PR 15-MAY-1998; 98US-0085582P.
PR 15-MAY-1998; 98US-0085700P.
PR 18-MAY-1998; 98US-0086023P.
PR 22-MAY-1998; 98US-0086392P.
PR 22-MAY-1998; 98US-0086486P.
PR 28-MAY-1998; 98US-0087098P.
PR 28-MAY-1998; 98US-0087098P.
PR 02-JUN-1998; 98US-0087609P.
PR 02-JUN-1998; 98US-0087759P.
PR 03-JUN-1998; 98US-0087827P.
PR 04-JUN-1998; 98US-0088025P.
PR 04-JUN-1998; 98US-0088028P.
PR 04-JUN-1998; 98US-0088033P.
PR 04-JUN-1998; 98US-0088326P.
PR 05-JUN-1998; 98US-0088167P.
PR 05-JUN-1998; 98US-0088202P.
PR 05-JUN-1998; 98US-0088212P.
PR 05-JUN-1998; 98US-0088217P.
PR 09-JUN-1998; 98US-0088655P.
PR 10-JUN-1998; 98US-0088722P.
PR 10-JUN-1998; 98US-0088738P.
PR 10-JUN-1998; 98US-0088740P.
PR 10-JUN-1998; 98US-0088811P.
PR 10-JUN-1998; 98US-0088824P.
PR 10-JUN-1998; 98US-0088825P.
PR 10-JUN-1998; 98US-0088826P.
PR 11-JUN-1998; 98US-0088861P.
PR 11-JUN-1998; 98US-0088863P.
PR 11-JUN-1998; 98US-0088876P.
PR 12-JUN-1998; 98US-0089090P.
PR 12-JUN-1998; 98US-0089105P.
PR 16-JUN-1998; 98US-0089512P.
PR 16-JUN-1998; 98US-0089514P.
PR 17-JUN-1998; 98US-0089538P.
PR 17-JUN-1998; 98US-0089598P.
PR 17-JUN-1998; 98US-0089653P.
PR 18-JUN-1998; 98US-0089908P.
PR 19-JUN-1998; 98US-0089952P.
PR 22-JUN-1998; 98US-0090246P.
PR 22-JUN-1998; 98US-0090252P.
PR 22-JUN-1998; 98US-0090254P.
PR 24-JUN-1998; 98US-0090429P.
PR 24-JUN-1998; 98US-0090435P.
PR 24-JUN-1998; 98US-0090444P.
PR 24-JUN-1998; 98US-0090461P.
PR 24-JUN-1998; 98US-0090535P.
PR 24-JUN-1998; 98US-0090540P.
PR 25-JUN-1998; 98US-0090676P.
PR 25-JUN-1998; 98US-0090678P.
PR 25-JUN-1998; 98US-0090688P.
PR 25-JUN-1998; 98US-0090690P.
PR 25-JUN-1998; 98US-0090694P.
PR 25-JUN-1998; 98US-0090695P.
PR 25-JUN-1998; 98US-0090696P.
PR 26-JUN-1998; 98US-00105413.
PR 26-JUN-1998; 98US-0090862P.
PR 26-JUN-1998; 98US-0090863P.
PR 26-JUN-1998; 98US-0091010P.
PR 01-JUL-1998; 98US-0091359P.
PR 01-JUL-1998; 98US-0091544P.
PR 02-JUL-1998; 98US-0091478P.
PR 02-JUL-1998; 98US-0091486P.
PR 02-JUL-1998; 98US-0091626P.
PR 02-JUL-1998; 98US-0091628P.
PR 02-JUL-1998; 98US-0091632P.
PR 04-AUG-1998; 98US-0094006P.
PR 04-AUG-1998; 98US-0095282P.
PR 10-AUG-1998; 98US-0095998P.
PR 10-AUG-1998; 98US-0096012P.
PR 17-AUG-1998; 98US-0096757P.
PR 17-AUG-1998; 98US-0096766P.
PR 17-AUG-1998; 98US-0096867P.
PR 17-AUG-1998; 98US-0096891P.
PR 17-AUG-1998; 98US-0096897P.
PR 18-AUG-1998; 98US-0096949P.
PR 18-AUG-1998; 98US-0096959P.
PR 18-AUG-1998; 98US-0097022P.
PR 26-AUG-1998; 98US-0097952P.
PR 26-AUG-1998; 98US-0097954P.
PR 26-AUG-1998; 98US-0097955P.
PR 26-AUG-1998; 98US-0097971P.
PR 26-AUG-1998; 98US-0097974P.
PR 26-AUG-1998; 98US-0098014P.
PR 01-SEP-1998; 98US-0098716P.
PR 01-SEP-1998; 98US-0098723P.
PR 02-SEP-1998; 98US-0098803P.
PR 02-SEP-1998; 98US-0098821P.
PR 02-SEP-1998; 98US-0098843P.
PR 09-SEP-1998; 98US-0099602P.
PR 10-SEP-1998; 98US-0099741P.
PR 10-SEP-1998; 98US-0099754P.
PR 10-SEP-1998; 98US-0099763P.
PR 10-SEP-1998; 98US-0099812P.
PR 15-SEP-1998; 98US-0100388P.
PR 16-SEP-1998; 98US-0100662P.
PR 16-SEP-1998; 98US-0100664P.
PR 16-SEP-1998; 98US-0101751P.
PR 16-SEP-1998; 98US-0100664P.
PR 17-SEP-1998; 98US-0100684P.
PR 17-SEP-1998; 98US-0100683P.
PR 17-SEP-1998; 98US-0100319P.
PR 17-SEP-1998; 98US-0100330P.
PR 18-SEP-1998; 98US-0100849P.
PR 18-SEP-1998; 98US-0101014P.
PR 18-SEP-1998; 98US-0101068P.
PR 23-SEP-1998; 98US-0101471P.
PR 23-SEP-1998; 98US-0101472P.


```
PR 18-JUN-1998; 98US-0089908P.
PR 19-JUN-1998; 98US-0089952P.
PR 22-JUN-1998; 98US-0090246P.
PR 22-JUN-1998; 98US-0090252P.
PR 22-JUN-1998; 98US-0090254P.
PR 24-JUN-1998; 98US-0090429P.
PR 24-JUN-1998; 98US-0090435P.
PR 24-JUN-1998; 98US-0090444P.
PR 24-JUN-1998; 98US-0090461P.
PR 24-JUN-1998; 98US-0090535P.
PR 24-JUN-1998; 98US-0090540P.
PR 25-JUN-1998; 98US-0090676P.
PR 25-JUN-1998; 98US-0090678P.
PR 25-JUN-1998; 98US-0090688P.
PR 25-JUN-1998; 98US-0090690P.
PR 25-JUN-1998; 98US-0090694P.
PR 25-JUN-1998; 98US-0090695P.
PR 25-JUN-1998; 98US-0090696P.
PR 26-JUN-1998; 98US-00105413.
PR 26-JUN-1998; 98US-0090862P.
PR 26-JUN-1998; 98US-0090863P.
PR 26-JUN-1998; 98US-0091010P.
PR 01-JUL-1998; 98US-0091359P.
PR 02-JUL-1998; 98US-0091544P.
PR 02-JUL-1998; 98US-0091478P.
PR 02-JUL-1998; 98US-0091486P.
PR 02-JUL-1998; 98US-0091626P.
PR 02-JUL-1998; 98US-0091628P.
PR 02-JUL-1998; 98US-0091632P.
PR 24-JUL-1998; 98US-0094006P.
PR 04-AUG-1998; 98US-0095282P.
PR 10-AUG-1998; 98US-0095998P.
PR 10-AUG-1998; 98US-0096012P.
PR 17-AUG-1998; 98US-0096757P.
PR 17-AUG-1998; 98US-0096766P.
PR 17-AUG-1998; 98US-0096867P.
PR 17-AUG-1998; 98US-0096891P.
PR 17-AUG-1998; 98US-0096897P.
PR 18-AUG-1998; 98US-0096949P.
PR 18-AUG-1998; 98US-0096959P.
PR 18-AUG-1998; 98US-0097022P.
PR 26-AUG-1998; 98US-0097922P.
PR 26-AUG-1998; 98US-0097954P.
PR 26-AUG-1998; 98US-0097955P.
PR 26-AUG-1998; 98US-0097971P.
PR 26-AUG-1998; 98US-0097974P.
PR 26-AUG-1998; 98US-0098014P.
PR 01-SEP-1998; 98US-0098716P.
PR 01-SEP-1998; 98US-0098723P.
PR 02-SEP-1998; 98US-0098803P.
PR 02-SEP-1998; 98US-0098821P.
PR 02-SEP-1998; 98US-0098843P.
PR 09-SEP-1998; 98US-0099602P.
PR 10-SEP-1998; 98US-0099741P.
PR 10-SEP-1998; 98US-0099754P.
PR 10-SEP-1998; 98US-0099763P.
PR 10-SEP-1998; 98US-0099812P.
PR 15-SEP-1998; 98US-0100388P.
PR 16-SEP-1998; 98US-0100622P.
PR 16-SEP-1998; 98US-0100664P.
PR 16-SEP-1998; 98US-0101751P.
PR 16-SEP-1998; 98WO-US019330.
PR 17-SEP-1998; 98US-0100683P.
PR 17-SEP-1998; 98US-0100684P.
PR 17-SEP-1998; 98US-0100919P.
PR 17-SEP-1998; 98US-0100930P.
PR 18-SEP-1998; 96US-0100849P.
PR 18-SEP-1998; 98US-0101014P.
PR 18-SEP-1998; 98US-0101068P.
PR 23-SEP-1998; 98US-0101471P.
PR 23-SEP-1998; 98US-0101472P.
PR 23-SEP-1998; 98US-0101475P.
PR 23-SEP-1998; 98US-0101477P.

PR 24-SEP-1998; 98US-0101738P.
PR 24-SEP-1998; 98US-0101739P.
PR 24-SEP-1998; 98US-0101743P.
PR 24-SEP-1998; 98US-0101743P.
PR 25-SEP-1998; 98US-0101922P.
PR 25-SEP-1998; 98US-0101786P.
PR 23-SEP-1998; 98US-0102407P.
PR 23-SEP-1998; 98US-0102240P.
PR 29-SEP-1998; 98US-0102330P.
PR 29-SEP-1998; 98US-0102331P.
PR 30-SEP-1998; 98US-0102487P.
PR 30-SEP-1998; 98US-0102570P.
PR 30-SEP-1998; 98US-0102571P.
PR 01-OCT-1998; 98US-0102684P.
PR 01-OCT-1998; 98US-0102687P.
PR 02-OCT-1998; 98US-0102965P.
PR 06-OCT-1998; 98US-0103258P.
PR 06-OCT-1998; 98US-0103449P.

Query Match 35.5%; Score 150; DB 6; Length 440;
Best Local Similarity 100.0%; Pred. No. 7.7e-135;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 16 SAAALPTGGQNLFTKDVTVIEGEVATISCVNKSDSDSVIQLLNPNQTIYFRDPRPLX 75
Db 32 SAAALPTGGQNLFTKDVTVIEGEVATISCVNKSDSDSVIQLLNPNQTIYFRDPRPLX 91
Qy 76 DSRFQLNFSSSELKVLNVTNSISDGRYFCOLYTDPPQESYTTITVLVPPRLMIDIQK 135
Db 92 DSRFQLNFSSSELKVLNVTNSISDGRYFCOLYTDPPQESYTTITVLVPPRLMIDIQK 151
Qy 136 DTAVEGEEIEVNCNTAMASKPATTIRWFKGN 165
Db 152 DTAVEGEEIEVNCNTAMASKPATTIRWFKGN 181

RESULT 59
ABO13682
ID ABO13682 standard; protein; 440 AA.
XX AC ABO13682;
XX AC ABO13682;
XX DT 28-AUG-2003 (first entry)
XX DE Human secreted/transmembrane protein (PRO) #17.
XX KW Human; secreted and transmembrane protein; PRO; TNF-alpha;
XX KW tumour necrosis factor alpha; chondrocyte cell; tumour; gene therapy;
XX KW tissue typing; adrenal tumour; lung tumour; colon tumour; breast tumour;
XX KW prostate tumour; rectal tumour; cervical tumour; liver tumour.
XX OS Homo sapiens.
XX PN US2003044916-A1.
XX PD 06-MAR-2003.
XX PF 20-JUN-2002; 2002US-00176484.
XX PR 18-SEP-1997; 97US-0059263P.
XX PR 18-SEP-1997; 97US-0059266P.
XX PR 17-OCT-1997; 97US-0062250P.
XX PR 21-OCT-1997; 97US-0063486P.
XX PR 24-OCT-1997; 97US-0063120P.
XX PR 24-OCT-1997; 97US-0063121P.
XX PR 28-OCT-1997; 97US-0063440P.
XX PR 28-OCT-1997; 97US-0063541P.
XX PR 28-OCT-1997; 97US-0063544P.
XX PR 28-OCT-1997; 97US-0063564P.
XX PR 29-OCT-1997; 97US-0063734P.
XX PR 31-OCT-1997; 97US-0063870P.
XX PR 31-OCT-1997; 97US-0064103P.
XX PR 13-NOV-1997; 97US-0065311P.
XX PR 21-NOV-1997; 97US-0066120P.
```

PR 24-NOV-1997; 97US-00656466P.
PR 24-NOV-1997; 97US-0066772P.
PR 11-DEC-1997; 97US-00693335P.
PR 12-DEC-1997; 97US-00694325P.
PR 17-DEC-1997; 97US-0069870P.
PR 18-DEC-1997; 97US-0068017P.
PR 10-MAR-1998; 98US-0077450P.
PR 11-MAR-1998; 98US-0077632P.
PR 11-MAR-1998; 98US-0077649P.
PR 20-MAR-1998; 98US-0078886P.
PR 20-MAR-1998; 98US-0078939P.
PR 27-MAR-1998; 98US-0079664P.
PR 27-MAR-1998; 98US-0079786P.
PR 31-MAR-1998; 98US-0080107P.
PR 31-MAR-1998; 98US-0080194P.
PR 01-APR-1998; 98US-0080327P.
PR 01-APR-1998; 98US-0080333P.
PR 08-APR-1998; 98US-0081049P.
PR 08-APR-1998; 98US-0081070P.
PR 09-APR-1998; 98US-0081195P.
PR 15-APR-1998; 98US-0081838P.
PR 21-APR-1998; 98US-0082568P.
PR 21-APR-1998; 98US-0082569P.
PR 22-APR-1998; 98US-0082704P.
PR 22-APR-1998; 98US-0082797P.
PR 28-APR-1998; 98US-0083322P.
PR 29-APR-1998; 98US-0083495P.
PR 29-APR-1998; 98US-0083496P.
PR 29-APR-1998; 98US-0083499P.
PR 29-APR-1998; 98US-0083559P.
PR 05-MAY-1998; 98US-0084366P.
PR 06-MAY-1998; 98US-0084414P.
PR 07-MAY-1998; 98US-0084639P.
PR 07-MAY-1998; 98US-0084640P.
PR 07-MAY-1998; 98US-0084643P.
PR 15-MAY-1998; 98US-0085579P.
PR 15-MAY-1998; 98US-0085580P.
PR 15-MAY-1998; 98US-0085582P.
PR 15-MAY-1998; 98US-0085700P.
PR 18-MAY-1998; 98US-0086023P.
PR 22-MAY-1998; 98US-0086392P.
PR 22-MAY-1998; 98US-0086486P.
PR 28-MAY-1998; 98US-0087098P.
PR 28-MAY-1998; 98US-0087208P.
PR 02-JUN-1998; 98US-0087609P.
PR 02-JUN-1998; 98US-0087759P.
PR 03-JUN-1998; 98US-0088025P.
PR 04-JUN-1998; 98US-0088028P.
PR 04-JUN-1998; 98US-0088029P.
PR 04-JUN-1998; 98US-0088033P.
PR 04-JUN-1998; 98US-0088326P.
PR 05-JUN-1998; 98US-0088167P.
PR 05-JUN-1998; 98US-0088202P.
PR 05-JUN-1998; 98US-0088212P.
PR 05-JUN-1998; 98US-0088217P.
PR 09-JUN-1998; 98US-0088655P.
PR 10-JUN-1998; 98US-0088722P.
PR 10-JUN-1998; 98US-0088738P.
PR 10-JUN-1998; 98US-0088740P.
PR 10-JUN-1998; 98US-0088811P.
PR 10-JUN-1998; 98US-0088824P.
PR 10-JUN-1998; 98US-0088825P.
PR 10-JUN-1998; 98US-0088826P.
PR 11-JUN-1998; 98US-0088861P.
PR 11-JUN-1998; 98US-0088863P.
PR 11-JUN-1998; 98US-0088867P.
PR 12-JUN-1998; 98US-0089090P.
PR 12-JUN-1998; 98US-0089105P.
PR 16-JUN-1998; 98US-0089512P.
PR 16-JUN-1998; 98US-0089514P.
PR 17-JUN-1998; 98US-0089538P.
PR 17-JUN-1998; 98US-0089598P.
PR 17-JUN-1998; 98US-0089653P.
PR 18-JUN-1998; 98US-0089908P.
PR 22-JUN-1998; 98US-0090246P.
PR 22-JUN-1998; 98US-0090252P.
PR 22-JUN-1998; 98US-0090254P.
PR 24-JUN-1998; 98US-0090429P.
PR 24-JUN-1998; 98US-0090435P.
PR 24-JUN-1998; 98US-0090444P.
PR 24-JUN-1998; 98US-0090461P.
PR 24-JUN-1998; 98US-0090535P.
PR 24-JUN-1998; 98US-0090540P.
PR 25-JUN-1998; 98US-0090676P.
PR 25-JUN-1998; 98US-0090678P.
PR 25-JUN-1998; 98US-0090688P.
PR 25-JUN-1998; 98US-0090690P.
PR 25-JUN-1998; 98US-0090694P.
PR 25-JUN-1998; 98US-0090695P.
PR 25-JUN-1998; 98US-0090696P.
PR 26-JUN-1998; 98US-00105413.
PR 26-JUN-1998; 98US-0090862P.
PR 26-JUN-1998; 98US-0090863P.
PR 01-JUL-1998; 98US-0091010P.
PR 01-JUL-1998; 98US-0091359P.
PR 02-JUL-1998; 98US-0091544P.
PR 02-JUL-1998; 98US-0091478P.
PR 02-JUL-1998; 98US-0091486P.
PR 02-JUL-1998; 98US-0091626P.
PR 02-JUL-1998; 98US-0091628P.
PR 02-JUL-1998; 98US-0091632P.
PR 24-JUL-1998; 98US-0094006P.
PR 04-AUG-1998; 98US-0095282P.
PR 10-AUG-1998; 98US-0095998P.
PR 10-AUG-1998; 98US-0096012P.
PR 17-AUG-1998; 98US-0096757P.
PR 17-AUG-1998; 98US-0096766P.
PR 17-AUG-1998; 98US-0096867P.
PR 17-AUG-1998; 98US-0096891P.
PR 17-AUG-1998; 98US-0096897P.
PR 18-AUG-1998; 98US-0096949P.
PR 18-AUG-1998; 98US-0096959P.
PR 18-AUG-1998; 98US-0097022P.
PR 26-AUG-1998; 98US-0097952P.
PR 26-AUG-1998; 98US-0097954P.
PR 26-AUG-1998; 98US-0097955P.
PR 26-AUG-1998; 98US-0097971P.
PR 26-AUG-1998; 98US-0097974P.
PR 26-AUG-1998; 98US-0098014P.
PR 01-SEP-1998; 98US-0098716P.
PR 01-SEP-1998; 98US-0098723P.
PR 02-SEP-1998; 98US-0098803P.
PR 02-SEP-1998; 98US-0098821P.
PR 02-SEP-1998; 98US-0098843P.
PR 09-SEP-1998; 98US-0099602P.
PR 10-SEP-1998; 98US-0099741P.
PR 10-SEP-1998; 98US-0099754P.
PR 10-SEP-1998; 98US-0099763P.
PR 10-SEP-1998; 98US-0099812P.
PR 15-SEP-1998; 98US-0100388P.
PR 16-SEP-1998; 98US-0100662P.
PR 16-SEP-1998; 98US-0100664P.
PR 16-SEP-1998; 98US-0101751P.
PR 16-SEP-1998; 98WO-US019330.
PR 17-SEP-1998; 98US-0100683P.
PR 17-SEP-1998; 98US-0100684P.
PR 17-SEP-1998; 98US-0100919P.
PR 17-SEP-1998; 98US-0100930P.
PR 18-SEP-1998; 98US-0100849P.
PR 18-SEP-1998; 98US-0101014P.
PR 18-SEP-1998; 98US-0101068P.
PR 23-SEP-1998; 98US-0101471P.
PR 23-SEP-1998; 98US-0101472P.
PR 23-SEP-1998; 98US-0101475P.

```
PR 23-SEP-1998; 98US-0101477P.
PR 24-SEP-1998; 98US-0101738P.
PR 24-SEP-1998; 98US-0101739P.
PR 24-SEP-1998; 98US-0101743P.
PR 24-SEP-1998; 98US-0101922P.
PR 25-SEP-1998; 98US-0101786P.
PR 29-SEP-1998; 98US-0102207P.
PR 29-SEP-1998; 98US-0102240P.
PR 29-SEP-1998; 98US-0102330P.
PR 29-SEP-1998; 98US-0102331P.
PR 30-SEP-1998; 98US-0102487P.
PR 30-SEP-1998; 98US-0102570P.
PR 30-SEP-1998; 98US-0102571P.
PR 01-OCT-1998; 98US-0102684P.
PR 01-OCT-1998; 98US-0102687P.
PR 02-OCT-1998; 98US-0102965P.
PR 06-OCT-1998; 98US-0103258P.
PR 06-OCT-1998; 98US-0103449P.

Query Match 35.5%; Score 150; DB 6; Length 440;
Best Local Similarity 100.0%; Pred. No. 7,7e-135;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 16 SAAALPTGQNLFTKDVTVIEGEVATISCVNKSDDSVIQLLNPNRQTIYFRDRPLK 75
Db 32 SAAALPTGQNLFTKDVTVIEGEVATISCVNKSDDSVIQLLNPNRQTIYFRDRPLK 91
Qy 76 DSRFQLNFSSELKVLNVSISDEGRYFCQLYTDPQESYTTITVLVPPRNLMDIQ 135
Db 92 DSRFQLNFSSELKVLNVSISDEGRYFCQLYTDPQESYTTITVLVPPRNLMDIQ 151
Qy 136 DTAVEGEEIEVNCVTAMASKPATIRWFKGN 165
Db 152 DTAVEGEEIEVNCVTAMASKPATIRWFKGN 181

RESULT 60
ABU57246
ID ABU57246 standard; protein; 440 AA.
AC ABU57246;
XX
XX 04-APR-2003 (first entry)
XX Human PRO355 protein.
XX Human; antiinflammatory; antiarteriosclerotic; cardiant;
XX anti-infertility; anti-HIV; cytostatic; antidiabetic; transmembrane;
XX antiinflammatory; anti-HIV; cytostatic; antidiabetic; cardiant; infertility;
XX anti-infertility; cytostatic; antidiabetic; gene therapy; birth defect;
XX inflammatory disease; organ failure; atherosclerosis; cardiac injury;
XX premature aging; AIDS; cancer; diabetic complication.
XX
XX Homo sapiens.
XX
XX US2002142958-A1.
XX
XX 03-OCT-2002.
XX
XX 30-AUG-2001; 2001US-00943762.
XX
XX 16-SEP-1998; 98WO-US019330.
XX 01-DEC-1998; 98WO-US025108.
XX 22-JUN-1999; 99WO-US012252.
XX 15-SEP-1999; 99WO-US021090.
XX 30-NOV-1999; 99WO-US028313.
XX 30-NOV-1999; 99WO-US028409.
XX 01-DEC-1999; 99WO-US028301.
XX 16-DEC-1999; 99WO-US030095.
XX 11-FEB-2000; 2000WO-US003565.
XX 22-FEB-2000; 2000WO-US004414.
XX 02-MAR-2000; 2000WO-US005841.
XX 30-MAR-2000; 2000WO-US008439.
```

```
PR 22-MAY-2000; 2000WO-US014042.
PR 28-JUL-2000; 2000WO-US020710.
PR 01-DEC-2000; 2000WO-US032678.
PR 28-FEB-2001; 2001WO-US006520.
PR 25-MAY-2001; 2001US-00866028.
XX
XX (GETH ) GENENTECH INC.
PA
XX Baker KP, Botstein D, Eaton DL, Ferrara N, Filvaroff E;
PI Gerritsen WE, Goddard A, Godowski PJ, Grimaldi JC, Gurney AL;
PI Hillan KJ, Kljavin LJ, Napier MA, Roy MA, Tumas D, Wood WI;
XX
DR WPI; 2003-174140/17.
DR N-PSDB; ABX77101.
XX
XX New secreted and transmembrane nucleic acids and polypeptides, designated
PT as PRO, useful for treating inflammation, organ failure, atherosclerosis,
PT cardiac injury, infertility, birth defects, premature aging, AIDS, or
PT cancer.
XX
XX Claim 1; Fig 24; 173pp; English.
XX
XX This invention relates to a nucleotide sequence encoding an isolated
CC secreted and/or transmembrane protein. The nucleotide sequences of the
CC invention may have antiinflammatory, antiarteriosclerotic, cardiant, anti
CC -infertility, anti-HIV, cytostatic and antidiabetic activities and may be
CC used in gene therapy. The nucleic acids and polypeptides are useful for
CC treating inflammatory diseases, organ failure, atherosclerosis, cardiac
CC injury, infertility, birth defects, premature aging, AIDS, cancer, or
CC diabetic complications. The nucleic acids are useful as hybridisation
CC probes, in chromosome and gene mapping, and in generating antisense RNA
CC or DNA. The polypeptides are useful as pharmaceuticals, diagnostics,
CC biosensors or bioreactors. Both are useful in tissue typing. The present
CC sequence represents a protein encoded by the nucleic acids of the
CC invention
XX
XX Sequence 440 AA;
XX
Query Match 35.5%; Score 150; DB 6; Length 440;
Best Local Similarity 100.0%; Pred. No. 7,7e-135;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 16 SAAALPTGQNLFTKDVTVIEGEVATISCVNKSDDSVIQLLNPNRQTIYFRDRPLK 75
Db 32 SAAALPTGQNLFTKDVTVIEGEVATISCVNKSDDSVIQLLNPNRQTIYFRDRPLK 91
Qy 76 DSRFQLNFSSELKVLNVSISDEGRYFCQLYTDPQESYTTITVLVPPRNLMDIQ 135
Db 92 DSRFQLNFSSELKVLNVSISDEGRYFCQLYTDPQESYTTITVLVPPRNLMDIQ 151
Qy 136 DTAVEGEEIEVNCVTAMASKPATIRWFKGN 165
Db 152 DTAVEGEEIEVNCVTAMASKPATIRWFKGN 181

RESULT 61
ABU65585
ID ABU65585 standard; protein; 440 AA.
XX
XX ABU65585;
XX
XX 19-MAY-2003 (first entry)
XX
XX Human secreted/transmembrane protein, SEQ ID 34.
XX
XX Human; PRO; secreted protein; transmembrane protein; cytostatic;
XX antiarthritic; osteopathic; adrenal tumour; lung tumour; colon tumour;
XX breast tumour; prostate tumour; rectal tumour; cervical tumour;
XX liver tumour; TNF-alpha release; arthritis; tumour necrosis factor alpha;
XX chondrocyte cell; bone disorder; cartilage disorder; sports injury.
XX
XX Homo sapiens.
XX
```



```
PR 05-JUN-1998; 98US-0088202P.
PR 05-JUN-1998; 98US-0088212P.
PR 05-JUN-1998; 98US-0088217P.
PR 09-JUN-1998; 98US-0088655P.
PR 10-JUN-1998; 98US-0088722P.
PR 10-JUN-1998; 98US-0088738P.
PR 10-JUN-1998; 98US-0088740P.
PR 10-JUN-1998; 98US-0088811P.
PR 10-JUN-1998; 98US-0088824P.
PR 10-JUN-1998; 98US-0088825P.
PR 10-JUN-1998; 98US-0088826P.
PR 11-JUN-1998; 98US-0088863P.
PR 11-JUN-1998; 98US-0088876P.
PR 12-JUN-1998; 98US-0088909P.
PR 12-JUN-1998; 98US-0089105P.
PR 16-JUN-1998; 98US-0089512P.
PR 16-JUN-1998; 98US-0089514P.
PR 17-JUN-1998; 98US-0089538P.
PR 17-JUN-1998; 98US-0089598P.
PR 17-JUN-1998; 98US-0089653P.
PR 18-JUN-1998; 98US-0089908P.
PR 19-JUN-1998; 98US-0089952P.
PR 22-JUN-1998; 98US-0090246P.
PR 22-JUN-1998; 98US-0090252P.
PR 22-JUN-1998; 98US-0090254P.
PR 24-JUN-1998; 98US-0090429P.
PR 24-JUN-1998; 98US-0090435P.
PR 24-JUN-1998; 98US-0090443P.
PR 24-JUN-1998; 98US-0090461P.
PR 24-JUN-1998; 98US-0090335P.
PR 24-JUN-1998; 98US-0090340P.
PR 25-JUN-1998; 98US-0090676P.
PR 25-JUN-1998; 98US-0090678P.
PR 25-JUN-1998; 98US-0090688P.
PR 25-JUN-1998; 98US-0090690P.
PR 25-JUN-1998; 98US-0090694P.
PR 25-JUN-1998; 98US-0090695P.
PR 25-JUN-1998; 98US-0090696P.
PR 26-JUN-1998; 98US-00105413.
PR 26-JUN-1998; 98US-0090862P.
PR 26-JUN-1998; 98US-0090863P.
PR 26-JUN-1998; 98US-0091010P.
PR 01-JUL-1998; 98US-0091359P.
PR 01-JUL-1998; 98US-0091544P.
PR 02-JUL-1998; 98US-0091478P.
PR 02-JUL-1998; 98US-0091486P.
PR 02-JUL-1998; 98US-0091626P.
PR 02-JUL-1998; 98US-0091628P.
PR 02-JUL-1998; 98US-0091632P.
PR 24-JUL-1998; 98US-0094006P.
PR 04-AUG-1998; 98US-0095282P.
PR 10-AUG-1998; 98US-0095998P.
PR 10-AUG-1998; 98US-0096012P.
PR 17-AUG-1998; 98US-0096757P.
PR 17-AUG-1998; 98US-0096766P.
PR 17-AUG-1998; 98US-0096867P.
PR 17-AUG-1998; 98US-0096891P.
PR 17-AUG-1998; 98US-0096897P.
PR 18-AUG-1998; 98US-0096949P.
PR 18-AUG-1998; 98US-0096959P.
PR 26-AUG-1998; 98US-0097022P.
PR 26-AUG-1998; 98US-0097952P.
PR 26-AUG-1998; 98US-0097954P.
PR 26-AUG-1998; 98US-0097955P.
PR 26-AUG-1998; 98US-0097971P.
PR 26-AUG-1998; 98US-0097974P.
PR 26-AUG-1998; 98US-0098014P.
PR 01-SEP-1998; 98US-0098716P.
PR 01-SEP-1998; 98US-0098723P.
PR 02-SEP-1998; 98US-0098803P.
PR 02-SEP-1998; 98US-0098821P.
PR 02-SEP-1998; 98US-0098843P.

PR 09-SEP-1998; 98US-0099602P.
PR 10-SEP-1998; 98US-0099741P.
PR 10-SEP-1998; 98US-0099754P.
PR 10-SEP-1998; 98US-0099763P.
PR 10-SEP-1998; 98US-0099812P.
PR 15-SEP-1998; 98US-0100388P.
PR 16-SEP-1998; 98US-0100662P.
PR 16-SEP-1998; 98US-0100664P.
PR 16-SEP-1998; 98US-0101751P.
PR 16-SEP-1998; 98US-01019330.
PR 17-SEP-1998; 98US-0100683P.
PR 17-SEP-1998; 98US-0100684P.
PR 17-SEP-1998; 98US-0100919P.
PR 17-SEP-1998; 98US-0100930P.
PR 18-SEP-1998; 98US-0100849P.
PR 18-SEP-1998; 98US-0101014P.
PR 18-SEP-1998; 98US-0101068P.
PR 23-SEP-1998; 98US-0101471P.
PR 23-SEP-1998; 98US-0101472P.
PR 23-SEP-1998; 98US-0101475P.
PR 23-SEP-1998; 98US-0101477P.
PR 24-SEP-1998; 98US-0101738P.
PR 24-SEP-1998; 98US-0101739P.
PR 24-SEP-1998; 98US-0101743P.
PR 24-SEP-1998; 98US-0101922P.
PR 25-SEP-1998; 98US-0101786P.
PR 29-SEP-1998; 98US-0102207P.
PR 29-SEP-1998; 98US-0102240P.
PR 29-SEP-1998; 98US-0102330P.
PR 29-SEP-1998; 98US-0102331P.
PR 30-SEP-1998; 98US-0102487P.
PR 30-SEP-1998; 98US-0102570P.
PR 30-SEP-1998; 98US-0102571P.
PR 01-OCT-1998; 98US-0102684P.
PR 01-OCT-1998; 98US-0102687P.
PR 02-OCT-1998; 98US-0102965P.
PR 06-OCT-1998; 98US-0103258P.
PR 06-OCT-1998; 98US-0103449P.
PR 07-OCT-1998; 98US-00168978.

Query Match 35.5%; Score 150; DB 6; Length 440;
Best Local Similarity 100.0%; Pred. No. 7,7e-135; Mismatches 0; Indels 0; Gaps 0;
Matches 150; Conservative 0;

QY 16 SAAALPTGQNLFTKDVTVIEGEVATISQVKNKSDSDSVIQLNPNRQTIYFRDPRPLK 75
Db |||||
QY 32 SAAALPTGQNLFTKDVTVIEGEVATISQVKNKSDSDSVIQLNPNRQTIYFRDPRPLK 91
Db |||||
QY 76 DSRFQLNFSSSELKVSILTNVSIISDEGRYFCQLYTDPPQESYTTITVLVPPRLMIDIQK 135
Db |||||
QY 92 DSRFQLNFSSSELKVSILTNVSIISDEGRYFCQLYTDPPQESYTTITVLVPPRLMIDIQK 151
Db |||||
QY 136 DTAVEGEIEVNCTAMASKPATIRWFKGN 165
Db |||||
QY 152 DTAVEGEIEVNCTAMASKPATIRWFKGN 181

RESULT 63
ABO03620
ID ABO03620 standard; protein; 440 AA.
XX ABO03620;
XX
DT 10-AUG-2003 (first entry)
XX
DE Human secreted/transmembrane protein (PRO) #17.
XX
KW Human; secreted and transmembrane protein; PRO; TNF-alpha;
KW tumour necrosis factor alpha; chondrocyte cell; tumour; gene therapy;
KW tissue typing; adrenal tumour; lung tumour; colon tumour; breast tumour;
KW prostate tumour; rectal tumour; cervical tumour; liver tumour.
XX
OS Homo sapiens.
```

| | | | |
|----|-------------------------------|-----------------|-----------------|
| XX | US2003036128-A1. | 04-JUN-1998; | 98US-00883266P; |
| EN | | PR 05-JUN-1998; | 98US-0088167P; |
| XX | | PR 05-JUN-1998; | 98US-0088202P; |
| PD | | PR 05-JUN-1998; | 98US-0088212P; |
| XX | 20-FEB-2003. | PR 05-JUN-1998; | 98US-0088217P; |
| XX | | PR 05-JUN-1998; | 98US-0088555P; |
| PE | | PR 03-JUN-1998; | 98US-0088722P; |
| XX | 27-JUN-2002; 2002US-00184616. | PR 10-JUN-1998; | 98US-0088738P; |
| PR | 18-SEP-1997; | PR 10-JUN-1998; | 98US-0088824P; |
| PR | 18-SEP-1997; | PR 10-JUN-1998; | 98US-0088825P; |
| PR | 17-OCT-1997; | PR 10-JUN-1998; | 98US-0088826P; |
| PR | 21-OCT-1997; | PR 10-JUN-1998; | 98US-0088861P; |
| PR | 21-OCT-1997; | PR 10-JUN-1998; | 98US-0088863P; |
| PR | 24-OCT-1997; | PR 10-JUN-1998; | 98US-0088876P; |
| PR | 24-OCT-1997; | PR 10-JUN-1998; | 98US-0088876P; |
| PR | 28-OCT-1997; | PR 10-JUN-1998; | 98US-0088909P; |
| PR | 28-OCT-1997; | PR 10-JUN-1998; | 98US-0089105P; |
| PR | 31-OCT-1997; | PR 10-JUN-1998; | 98US-0089512P; |
| PR | 31-OCT-1997; | PR 10-JUN-1998; | 98US-0089514P; |
| PR | 13-NOV-1997; | PR 11-JUN-1998; | 98US-0089538P; |
| PR | 13-NOV-1997; | PR 11-JUN-1998; | 98US-0089538P; |
| PR | 21-NOV-1997; | PR 11-JUN-1998; | 98US-0089598P; |
| PR | 24-NOV-1997; | PR 11-JUN-1998; | 98US-0089598P; |
| PR | 24-NOV-1997; | PR 11-JUN-1998; | 98US-0089598P; |
| PR | 11-DEC-1997; | PR 12-JUN-1998; | 98US-0089598P; |
| PR | 12-DEC-1997; | PR 12-JUN-1998; | 98US-0089598P; |
| PR | 17-DEC-1997; | PR 22-JUN-1998; | 98US-0090246P; |
| PR | 17-DEC-1997; | PR 22-JUN-1998; | 98US-0090252P; |
| PR | 18-DEC-1997; | PR 24-JUN-1998; | 98US-0090254P; |
| PR | 10-MAR-1998; | PR 24-JUN-1998; | 98US-0090429P; |
| PR | 11-MAR-1998; | PR 24-JUN-1998; | 98US-0090435P; |
| PR | 11-MAR-1998; | PR 24-JUN-1998; | 98US-0090444P; |
| PR | 20-MAR-1998; | PR 24-JUN-1998; | 98US-0090461P; |
| PR | 20-MAR-1998; | PR 24-JUN-1998; | 98US-0090535P; |
| PR | 27-MAR-1998; | PR 24-JUN-1998; | 98US-0090540P; |
| PR | 27-MAR-1998; | PR 25-JUN-1998; | 98US-0090676P; |
| PR | 31-MAR-1998; | PR 25-JUN-1998; | 98US-0090678P; |
| PR | 31-MAR-1998; | PR 25-JUN-1998; | 98US-0090688P; |
| PR | 01-APR-1998; | PR 25-JUN-1998; | 98US-0090690P; |
| PR | 01-APR-1998; | PR 25-JUN-1998; | 98US-0090694P; |
| PR | 08-APR-1998; | PR 25-JUN-1998; | 98US-0090695P; |
| PR | 08-APR-1998; | PR 25-JUN-1998; | 98US-0090696P; |
| PR | 09-APR-1998; | PR 26-JUN-1998; | 98US-0091043P; |
| PR | 15-APR-1998; | PR 26-JUN-1998; | 98US-0091048P; |
| PR | 21-APR-1998; | PR 26-JUN-1998; | 98US-0091062P; |
| PR | 21-APR-1998; | PR 26-JUN-1998; | 98US-0091063P; |
| PR | 21-APR-1998; | PR 26-JUN-1998; | 98US-0091063P; |
| PR | 22-APR-1998; | PR 01-JUL-1998; | 98US-0091101P; |
| PR | 22-APR-1998; | PR 01-JUL-1998; | 98US-0091359P; |
| PR | 28-APR-1998; | PR 01-JUL-1998; | 98US-0091544P; |
| PR | 29-APR-1998; | PR 03-JUL-1998; | 98US-0091478P; |
| PR | 29-APR-1998; | PR 03-JUL-1998; | 98US-0091486P; |
| PR | 29-APR-1998; | PR 02-JUL-1998; | 98US-0091626P; |
| PR | 29-APR-1998; | PR 02-JUL-1998; | 98US-0091628P; |
| PR | 29-APR-1998; | PR 02-JUL-1998; | 98US-0091632P; |
| PR | 05-MAY-1998; | PR 24-JUL-1998; | 98US-0094006P; |
| PR | 06-MAY-1998; | PR 04-AUG-1998; | 98US-0095282P; |
| PR | 07-MAY-1998; | PR 10-AUG-1998; | 98US-0095998P; |
| PR | 07-MAY-1998; | PR 10-AUG-1998; | 98US-0096012P; |
| PR | 07-MAY-1998; | PR 17-AUG-1998; | 98US-0096757P; |
| PR | 15-MAY-1998; | PR 17-AUG-1998; | 98US-0096766P; |
| PR | 15-MAY-1998; | PR 17-AUG-1998; | 98US-0096867P; |
| PR | 15-MAY-1998; | PR 17-AUG-1998; | 98US-0096891P; |
| PR | 15-MAY-1998; | PR 17-AUG-1998; | 98US-0096897P; |
| PR | 18-MAY-1998; | PR 18-AUG-1998; | 98US-0096949P; |
| PR | 22-MAY-1998; | PR 18-AUG-1998; | 98US-0096959P; |
| PR | 22-MAY-1998; | PR 18-AUG-1998; | 98US-0097022P; |
| PR | 28-MAY-1998; | PR 26-AUG-1998; | 98US-0097952P; |
| PR | 28-MAY-1998; | PR 26-AUG-1998; | 98US-0097954P; |
| PR | 02-JUN-1998; | PR 26-AUG-1998; | 98US-0097955P; |
| PR | 02-JUN-1998; | PR 26-AUG-1998; | 98US-0097971P; |
| PR | 03-JUN-1998; | PR 26-AUG-1998; | 98US-0097974P; |

```
PR 02-SEP-1998; 98US-0098821P.
PR 02-SEP-1998; 98US-0098843P.
PR 09-SEP-1998; 98US-0099602P.
PR 10-SEP-1998; 98US-0099741P.
PR 10-SEP-1998; 98US-0099754P.
PR 10-SEP-1998; 98US-0099763P.
PR 10-SEP-1998; 98US-0099812P.
PR 15-SEP-1998; 98US-0100388P.
PR 16-SEP-1998; 98US-0100662P.
PR 16-SEP-1998; 98US-0100664P.
PR 16-SEP-1998; 98US-0101751P.
PR 16-SEP-1998; 98WO-US019330.
PR 17-SEP-1998; 98US-0100683P.
PR 17-SEP-1998; 98US-0100684P.
PR 17-SEP-1998; 98US-0100919P.
PR 17-SEP-1998; 98US-0100930P.
PR 18-SEP-1998; 98US-0100849P.
PR 18-SEP-1998; 98US-0101014P.
PR 18-SEP-1998; 98US-0101068P.
PR 23-SEP-1998; 98US-0101471P.
PR 23-SEP-1998; 98US-0101472P.
PR 23-SEP-1998; 98US-0101475P.
PR 23-SEP-1998; 98US-0101477P.
PR 24-SEP-1998; 98US-0101738P.
PR 24-SEP-1998; 98US-0101739P.
PR 24-SEP-1998; 98US-0101743P.
PR 24-SEP-1998; 98US-0101922P.
PR 25-SEP-1998; 98US-0101786P.
PR 29-SEP-1998; 98US-010207P.
PR 29-SEP-1998; 98US-0102240P.
PR 29-SEP-1998; 98US-0102330P.
PR 29-SEP-1998; 98US-0102331P.
PR 30-SEP-1998; 98US-0102487P.
PR 30-SEP-1998; 98US-0102570P.
PR 30-SEP-1998; 98US-0102571P.
PR 01-OCT-1998; 98US-0102684P.
PR 01-OCT-1998; 98US-0102687P.
PR 02-OCT-1998; 98US-0102965P.
PR 06-OCT-1998; 98US-0103258P.
PR 06-OCT-1998; 98US-0103449P.

Query Match 35.5%; Score 150; DB 6; Length 440;
Best Local Similarity 100.0%; Pred. No. 7.7e-135;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 16 SAALAIPTGQNLFTKDVTVIEGEVATISQVKNKSDSVIQLNPNRQTIYFRDFRPLK 75
Db 32 SAALAIPTGQNLFTKDVTVIEGEVATISQVKNKSDSVIQLNPNRQTIYFRDFRPLK 91

Qy 76 DSRFQLNFSSELKVLNWSISDEGRYFCQLYTDPQSSYTTITVLVPPRNLMDIQK 135
Db 92 DSRFQLNFSSELKVLNWSISDEGRYFCQLYTDPQSSYTTITVLVPPRNLMDIQK 151

Qy 136 DTAVEGEIEVNCVTAMASKPATIRWPKGN 165
Db 152 DTAVEGEIEVNCVTAMASKPATIRWPKGN 181

RESULT 64
ABR67068
ID ABR67068 standard; protein; 440 AA.
XX AC
XX ABR67068;
XX DT
XX 05-AUG-2003 (first entry)
XX DE Human secreted polypeptide PRO355, SEQ ID NO:34.
XX KW Human; PRO; secreted protein; transmembrane protein;
KW KW extracellular domain; tumour necrosis factor-alpha; TNF-alpha;
KW KW chondrocyte; proliferation; differentiation; cartilage disorder;
KW KW bone disorder; arthritis; sports injury; cancer; tumour; diagnosis;
KW KW adrenal tumour; lung; colon; breast; prostate; kidney; rectum; cervix;
```

KW liver; drug screening; transgenic animal; genetic analysis;
antiarthritic; vulnerary; gene therapy.

OS Homo sapiens.

PN US2003027266-A1.

XX 06-FEB-2003.

XX 18-JUN-2002; 2002US-00174588.

XX 18-SEP-1997; 97US-0059263P.

XX 18-SEP-1997; 97US-0059266P.

XX 17-OCT-1997; 97US-0062250P.

XX 21-OCT-1997; 97US-0063486P.

XX 24-OCT-1997; 97US-0063120P.

XX 24-OCT-1997; 97US-0063121P.

XX 28-OCT-1997; 97US-0063540P.

XX 28-OCT-1997; 97US-0063541P.

XX 28-OCT-1997; 97US-0063544P.

XX 28-OCT-1997; 97US-0063564P.

XX 31-OCT-1997; 97US-0063734P.

XX 31-OCT-1997; 97US-0063870P.

XX 13-NOV-1997; 97US-0065111P.

XX 21-NOV-1997; 97US-0066120P.

XX 24-NOV-1997; 97US-0066466P.

XX 11-DEC-1997; 97US-0066772P.

XX 12-DEC-1997; 97US-0069335P.

XX 17-DEC-1997; 97US-0069425P.

XX 18-DEC-1997; 97US-0069870P.

XX 10-MAR-1998; 97US-0077450P.

XX 11-MAR-1998; 98US-0077632P.

XX 11-MAR-1998; 98US-0077649P.

XX 20-MAR-1998; 98US-0078866P.

XX 20-MAR-1998; 98US-0078939P.

XX 27-MAR-1998; 98US-0079664P.

XX 31-MAR-1998; 98US-0080107P.

XX 01-APR-1998; 98US-0080194P.

XX 01-APR-1998; 98US-0080327P.

XX 01-APR-1998; 98US-0080333P.

XX 08-APR-1998; 98US-0081049P.

XX 09-APR-1998; 98US-0081070P.

XX 15-APR-1998; 98US-0081195P.

XX 15-APR-1998; 98US-0081838P.

XX 21-APR-1998; 98US-0082568P.

XX 21-APR-1998; 98US-0082569P.

XX 22-APR-1998; 98US-0082704P.

XX 22-APR-1998; 98US-0082797P.

XX 28-APR-1998; 98US-0083322P.

XX 29-APR-1998; 98US-0083495P.

XX 29-APR-1998; 98US-0083496P.

XX 29-APR-1998; 98US-0083499P.

XX 29-APR-1998; 98US-0083559P.

XX 05-MAY-1998; 98US-0084366P.

XX 06-MAY-1998; 98US-0084414P.

XX 07-MAY-1998; 98US-0084639P.

XX 07-MAY-1998; 98US-0084640P.

XX 15-MAY-1998; 98US-0084843P.

XX 15-MAY-1998; 98US-0085579P.

XX 15-MAY-1998; 98US-0085580P.

XX 15-MAY-1998; 98US-0085822P.

XX 15-MAY-1998; 98US-0085700P.

XX 18-MAY-1998; 98US-0086023P.

XX 22-MAY-1998; 98US-0086392P.

XX 22-MAY-1998; 98US-0086486P.

XX 28-MAY-1998; 98US-0087098P.

XX 28-MAY-1998; 98US-0087208P.

XX 02-JUN-1998; 98US-0087609P.

XX 03-JUN-1998; 98US-0087759P.

XX 03-JUN-1998; 98US-0087827P.

| | | | | | |
|-----------|--|----------------|--|--------------|--|
| PR | 04-JUN-1998; | 98US-0088025P. | PR | 26-AUG-1998; | 98US-0098014P. |
| PR | 04-JUN-1998; | 98US-0088028P. | PR | 01-SEP-1998; | 98US-0098716P. |
| PR | 04-JUN-1998; | 98US-0088029P. | PR | 01-SEP-1998; | 98US-0098723P. |
| PR | 04-JUN-1998; | 98US-0088033P. | PR | 02-SEP-1998; | 98US-0098803P. |
| PR | 04-JUN-1998; | 98US-0088326P. | PR | 02-SEP-1998; | 98US-0098821P. |
| PR | 05-JUN-1998; | 98US-0088167P. | PR | 02-SEP-1998; | 98US-0098843P. |
| PR | 05-JUN-1998; | 98US-0088202P. | PR | 09-SEP-1998; | 98US-0099602P. |
| PR | 05-JUN-1998; | 98US-0088212P. | PR | 10-SEP-1998; | 98US-0099741P. |
| PR | 05-JUN-1998; | 98US-0088217P. | PR | 10-SEP-1998; | 98US-0099754P. |
| PR | 09-JUN-1998; | 98US-0088255P. | PR | 10-SEP-1998; | 98US-0099763P. |
| PR | 10-JUN-1998; | 98US-0088722P. | PR | 10-SEP-1998; | 98US-0099812P. |
| PR | 10-JUN-1998; | 98US-0088738P. | PR | 15-SEP-1998; | 98US-0100388P. |
| PR | 10-JUN-1998; | 98US-0088740P. | PR | 16-SEP-1998; | 98US-0100662P. |
| PR | 10-JUN-1998; | 98US-0088811P. | PR | 16-SEP-1998; | 98US-0100664P. |
| PR | 10-JUN-1998; | 98US-0088824P. | PR | 16-SEP-1998; | 98US-0101751P. |
| PR | 10-JUN-1998; | 98US-0088826P. | PR | 16-SEP-1998; | 98US-01019330. |
| PR | 10-JUN-1998; | 98US-0088826P. | PR | 17-SEP-1998; | 98US-0100683P. |
| PR | 11-JUN-1998; | 98US-0088861P. | PR | 17-SEP-1998; | 98US-0100684P. |
| PR | 11-JUN-1998; | 98US-0088863P. | PR | 17-SEP-1998; | 98US-0100919P. |
| PR | 11-JUN-1998; | 98US-0088876P. | PR | 17-SEP-1998; | 98US-0100930P. |
| PR | 12-JUN-1998; | 98US-0089090P. | PR | 18-SEP-1998; | 98US-0100849P. |
| PR | 12-JUN-1998; | 98US-0089105P. | PR | 18-SEP-1998; | 98US-0101014P. |
| PR | 16-JUN-1998; | 98US-0089512P. | PR | 18-SEP-1998; | 98US-0101068P. |
| PR | 16-JUN-1998; | 98US-0089514P. | PR | 23-SEP-1998; | 98US-0101471P. |
| PR | 17-JUN-1998; | 98US-0089538P. | PR | 23-SEP-1998; | 98US-0101472P. |
| PR | 17-JUN-1998; | 98US-0089598P. | PR | 23-SEP-1998; | 98US-0101475P. |
| PR | 17-JUN-1998; | 98US-0089653P. | PR | 23-SEP-1998; | 98US-0101477P. |
| PR | 18-JUN-1998; | 98US-0089908P. | PR | 24-SEP-1998; | 98US-0101738P. |
| PR | 18-JUN-1998; | 98US-0089952P. | PR | 24-SEP-1998; | 98US-0101739P. |
| PR | 22-JUN-1998; | 98US-0090246P. | PR | 24-SEP-1998; | 98US-0101743P. |
| PR | 22-JUN-1998; | 98US-0090252P. | PR | 24-SEP-1998; | 98US-0101922P. |
| PR | 22-JUN-1998; | 98US-0090254P. | PR | 25-SEP-1998; | 98US-0101786P. |
| PR | 24-JUN-1998; | 98US-0090429P. | PR | 29-SEP-1998; | 98US-0102207P. |
| PR | 24-JUN-1998; | 98US-0090435P. | PR | 29-SEP-1998; | 98US-0102240P. |
| PR | 24-JUN-1998; | 98US-0090444P. | PR | 29-SEP-1998; | 98US-0102330P. |
| PR | 24-JUN-1998; | 98US-0090461P. | PR | 29-SEP-1998; | 98US-0102331P. |
| PR | 24-JUN-1998; | 98US-0090535P. | PR | 30-SEP-1998; | 98US-0102487P. |
| PR | 24-JUN-1998; | 98US-0090540P. | PR | 30-SEP-1998; | 98US-0102570P. |
| PR | 25-JUN-1998; | 98US-0090676P. | PR | 30-SEP-1998; | 98US-0102571P. |
| PR | 25-JUN-1998; | 98US-0090678P. | PR | 01-OCT-1998; | 98US-0102684P. |
| PR | 25-JUN-1998; | 98US-0090688P. | PR | 01-OCT-1998; | 98US-0102687P. |
| PR | 25-JUN-1998; | 98US-0090690P. | Query Match 35.5%; Score 150; DB 6; Length 440; | | |
| PR | 25-JUN-1998; | 98US-0090694P. | Best Local Similarity 100.0%; Pred. NO. 7.7e-135; | | |
| PR | 25-JUN-1998; | 98US-0090695P. | Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0; | | |
| PR | 25-JUN-1998; | 98US-0090696P. | | | |
| PR | 26-JUN-1998; | 98US-00105413. | QY | 16 | SAALIPGTGGQNLFTKDVTVIEGEVATISCOVNKSDDSVIQLNPNROTIVFRDPRPLK 75 |
| PR | 26-JUN-1998; | 98US-0090862P. | DB | 32 | SAALIPGTGGQNLFTKDVTVIEGEVATISCOVNKSDDSVIQLNPNROTIVFRDPRPLK 91 |
| PR | 26-JUN-1998; | 98US-0090863P. | QY | 76 | DSRFQLNFSSELKVLSTNVNISDEGRYFCOLYTDPPQESYTTITVLVPPRNLMIDIOK 135 |
| PR | 26-JUN-1998; | 98US-0091010P. | DB | 92 | DSRFQLNFSSELKVLSTNVNISDEGRYFCOLYTDPPQESYTTITVLVPPRNLMIDIOK 151 |
| PR | 01-JUL-1998; | 98US-0091359P. | QY | 136 | DTAVEGEEIEVNCTAMASKPATTIRWFKGN 165 |
| PR | 01-JUL-1998; | 98US-0091454P. | DB | 152 | DTAVEGEEIEVNCTAMASKPATTIRWFKGN 181 |
| PR | 02-JUL-1998; | 98US-0091478P. | QY | | |
| PR | 02-JUL-1998; | 98US-0091486P. | DB | | |
| PR | 02-JUL-1998; | 98US-0091626P. | QY | | |
| PR | 02-JUL-1998; | 98US-0091628P. | DB | | |
| PR | 02-JUL-1998; | 98US-0091632P. | QY | | |
| PR | 24-JUL-1998; | 98US-0094006P. | DB | | |
| PR | 04-AUG-1998; | 98US-0095282P. | QY | | |
| PR | 10-AUG-1998; | 98US-0095998P. | DB | | |
| PR | 10-AUG-1998; | 98US-0096012P. | QY | | |
| PR | 17-AUG-1998; | 98US-0096757P. | DB | | |
| PR | 17-AUG-1998; | 98US-0096766P. | QY | | |
| PR | 17-AUG-1998; | 98US-0096867P. | DB | | |
| PR | 17-AUG-1998; | 98US-0096891P. | QY | | |
| PR | 17-AUG-1998; | 98US-0096897P. | DB | | |
| PR | 18-AUG-1998; | 98US-0096949P. | QY | | |
| PR | 18-AUG-1998; | 98US-0096959P. | DB | | |
| PR | 18-AUG-1998; | 98US-0097022P. | QY | | |
| PR | 26-AUG-1998; | 98US-0097952P. | DB | | |
| PR | 26-AUG-1998; | 98US-0097954P. | QY | | |
| PR | 26-AUG-1998; | 98US-0097955P. | DB | | |
| PR | 26-AUG-1998; | 98US-0097971P. | QY | | |
| PR | 26-AUG-1998; | 98US-0097974P. | DB | | |
| RESULT 65 | | | | | |
| ABO15671 | | | | | |
| ID | ABO15671 standard; protein; 440 AA. | | | | |
| XX | ABO15671; | | | | |
| AC | ABO15671; | | | | |
| XX | ABO15671; | | | | |
| DT | 27-AUG-2003 (first entry) | | | | |
| XX | Human secreted/transmembrane protein (PRO) #17. | | | | |
| DE | Human; secreted and transmembrane protein; PRO; TNF-alpha; | | | | |
| XX | tumour necrosis factor alpha; chondrocyte cell; tumour; gene therapy; | | | | |
| KW | tissue typing; adrenal tumour; lung tumour; colon tumour; breast tumour; | | | | |
| KW | prostate tumour; rectal tumour; cervical tumour; liver tumour. | | | | |

```
XX OS Homo sapiens.
XX AC US2003054483-A1.
XX PN 20-MAR-2003.
XX DT 26-JUL-2002; 2002US-00205907.
XX DE 05-JUN-2000; 2000US-0209832P.
XX PF 28-FEB-2001; 2001WO-US006520.
XX PR 15-JAN-2002; 2002US-00052586.
XX PA (GETH ) GENENTECH INC.
XX PI Baker KP, Chen J, Desnoyers L, Goddard A, Godowski PJ, Gurney AL;
XX PI Pan J, Smith V, Watanabe CK, Wood WI, Zhang Z;
XX PI WPI: 2003-479876/45.
XX DR N-PSDB; ACD21185.
XX DR
XX PT Three hundred and five nucleic acids encoding PRO polypeptides, useful
XX PT for the manufacture of a medicament for diagnosing or treating tumor or
XX PT for measuring or detecting expression of an associated gene.
XX PS Claim 11; Fig 34; 699pp; English.
XX CC
XX CC The invention discloses human nucleic acids encoding secreted and
XX CC transmembrane (PRO) polypeptides, with or without their associated signal
XX CC peptide. Also disclosed is an antibody that specifically binds to the PRO
XX CC polypeptide, a method for stimulating the release of tumor necrosis
XX CC factor alpha (TNF-alpha) from human blood by contacting the blood with a
XX CC PRO polypeptide, a method for stimulating the proliferation or
XX CC differentiation of chondrocyte cells by contacting the cells with a PRO
XX CC polypeptide, a method for detecting the presence of a tumour in a mammal
XX CC and an oligonucleotide probe derived from any of the PRO nucleotide
XX CC sequences. The nucleotide sequences are useful as probes, in chromosome
XX CC and gene mapping, in generating antisense RNA and DNA, in preparing PRO
XX CC polypeptides by recombinant techniques and in gene therapy (e.g. for
XX CC replacement of defective gene). The PRO polypeptides are useful as
XX CC molecular weight markers for protein electrophoresis purposes, for
XX CC chromosome identification, as chromosome markers, as therapeutic agents,
XX CC for stimulating the release of TNF-alpha from human blood, for
XX CC stimulating the proliferation or differentiation of chondrocytes and
XX CC detecting the presence, prevention and/or treatment of a tumour, such as
XX CC adrenal, lung, colon, breast, prostate, rectal, cervical or liver tumour.
XX CC The PRO polypeptides and nucleic acids may also be used diagnostically
XX CC for tissue typing. The sequence presented is a PRO polypeptide of the
XX CC invention. Note: The sequence data for this patent can also be obtained
XX CC in electronic format directly from USPTO at
XX CC seqdata.uspto.gov/sequence.html
XX SQ
XX SQ Sequence 440 AA;
Query March 35.5%; Score 150; DB 6; Length 440;
Best Local Similarity 100.0%; Pred. No. 7.7e-135;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 16 SAALIPITGDCQNLFKDVTVIEGEVATISQVKNKSDSVIQLNPNRQTIYFRDRPLK 75
Db 32 SAALIPITGDCQNLFKDVTVIEGEVATISQVKNKSDSVIQLNPNRQTIYFRDRPLK 91
Qy 76 DSRFQLNFFSSELKSLTNVSIISDEGRYFQCLYTDPPQESYTTITVLVPPNLMIDIQK 135
Db 92 DSRFQLNFFSSELKSLTNVSIISDEGRYFQCLYTDPPQESYTTITVLVPPNLMIDIQK 151
Qy 136 DTAVEGEIEVNCAMASKPATTTIRWPKGN 165
Db 152 DTAVEGEIEVNCAMASKPATTTIRWPKGN 181
RESULT 66
ABUS5952
```

```
ID XX ABUS5952 standard; protein; 440 AA.
AC XX ABUS5952;
XX DT 26-MAR-2003 (first entry)
XX DE Human secreted/transmembrane protein, PRO355.
XX KW Human; secreted protein; transmembrane protein; PRO; antiarthritic;
XX KW vulnery; tumour necrosis factor-alpha; chondrocyte cell proliferation;
XX KW chondrocyte cell differentiation; tumour; adrenal tumour; lung tumour;
XX KW colon tumour; breast tumour; prostate tumour; rectal tumour;
XX KW cervical tumour; liver tumour; bone disorder; cartilage disorder;
XX KW arthritis; sports injury.
XX OS Homo sapiens.
XX PN US2003022298-A1.
XX DT 30-JAN-2003.
XX DE 20-JUN-2002; 2002US-00176913.
XX PR 18-SEP-1997; 97US-0059263P.
XX PR 18-SEP-1997; 97US-0059266P.
XX PR 17-OCT-1997; 97US-0062250P.
XX PR 21-OCT-1997; 97US-0063486P.
XX PR 24-OCT-1997; 97US-0063120P.
XX PR 24-OCT-1997; 97US-0063121P.
XX PR 28-OCT-1997; 97US-0063540P.
XX PR 28-OCT-1997; 97US-0063541P.
XX PR 28-OCT-1997; 97US-0063544P.
XX PR 28-OCT-1997; 97US-0063564P.
XX PR 29-OCT-1997; 97US-0063734P.
XX PR 31-OCT-1997; 97US-0063870P.
XX PR 05-NOV-1997; 97US-0064103P.
XX PR 05-NOV-1997; 97WO-US020069.
XX PR 13-NOV-1997; 97US-0065311P.
XX PR 21-NOV-1997; 97US-0066120P.
XX PR 24-NOV-1997; 97US-0066466P.
XX PR 24-NOV-1997; 97US-0066772P.
XX PR 11-DEC-1997; 97US-0069335P.
XX PR 12-DEC-1997; 97US-0069425P.
XX PR 17-DEC-1997; 97US-0069870P.
XX PR 18-DEC-1997; 97US-0068017P.
XX PR 10-MAR-1998; 98US-0077632P.
XX PR 11-MAR-1998; 98US-0077632P.
XX PR 11-MAR-1998; 98US-0077649P.
XX PR 20-MAR-1998; 98US-0078866P.
XX PR 20-MAR-1998; 98US-0078939P.
XX PR 27-MAR-1998; 98US-0079664P.
XX PR 31-MAR-1998; 98US-0080107P.
XX PR 31-MAR-1998; 98US-0080194P.
XX PR 01-APR-1998; 98US-0080327P.
XX PR 01-APR-1998; 98US-0080333P.
XX PR 08-APR-1998; 98US-0081049P.
XX PR 08-APR-1998; 98US-0081070P.
XX PR 09-APR-1998; 98US-0081195P.
XX PR 15-APR-1998; 98US-0081838P.
XX PR 21-APR-1998; 98US-0082568P.
XX PR 22-APR-1998; 98US-0082569P.
XX PR 22-APR-1998; 98US-0082704P.
XX PR 22-APR-1998; 98US-0082797P.
XX PR 28-APR-1998; 98US-0083322P.
XX PR 29-APR-1998; 98US-0083495P.
XX PR 29-APR-1998; 98US-0083496P.
XX PR 29-APR-1998; 98US-0083499P.
XX PR 29-APR-1998; 98US-0083559P.
XX PR 05-MAY-1998; 98US-0084366P.
XX PR 06-MAY-1998; 98US-0084414P.
XX PR 07-MAY-1998; 98US-0084639P.
XX PR 07-MAY-1998; 98US-0084640P.
```


ABU65280
ID ABU65280 standard; protein; 440 AA.
XX
AC ABU65280;
XX
XX 16-MAY-2003 (first entry)
XX DT
XX DE Human PRO polypeptide #17.
XX
XX Human; PRO; cytostatic; chromosome mapping; gene mapping;
KW protein electrophoresis; tumour necrosis factor-alpha; TNF-alpha; blood;
KW chondrocyte differentiation; chondrocyte proliferation; tumour.
XX
XX Homo sapiens.
XX
XX US2003032102-A1.
XX
XX 13-FEB-2003.
XX
XX 17-JUN-2002; 2002US-00173597.
XX
PR 18-SEP-1997; 97US-0059263P.
PR 18-SEP-1997; 97US-0059266P.
PR 17-OCT-1997; 97US-0062250P.
PR 21-OCT-1997; 97US-0063486P.
PR 24-OCT-1997; 97US-0063120P.
PR 24-OCT-1997; 97US-0063121P.
PR 28-OCT-1997; 97US-0063540P.
PR 28-OCT-1997; 97US-0063541P.
PR 28-OCT-1997; 97US-0063544P.
PR 28-OCT-1997; 97US-0063564P.
PR 29-OCT-1997; 97US-0063734P.
PR 31-OCT-1997; 97US-0063870P.
PR 31-OCT-1997; 97US-0064103P.
PR 13-NOV-1997; 97US-0065311P.
PR 21-NOV-1997; 97US-0066120P.
PR 24-NOV-1997; 97US-0066466P.
PR 24-NOV-1997; 97US-0066772P.
PR 11-DEC-1997; 97US-0069335P.
PR 12-DEC-1997; 97US-0069425P.
PR 17-DEC-1997; 97US-0069870P.
PR 18-DEC-1997; 97US-0068017P.
PR 10-MAR-1998; 98US-0077450P.
PR 11-MAR-1998; 98US-0077632P.
PR 11-MAR-1998; 98US-0077649P.
PR 20-MAR-1998; 98US-0078886P.
PR 20-MAR-1998; 98US-0078939P.
PR 27-MAR-1998; 98US-0079664P.
PR 27-MAR-1998; 98US-0079786P.
PR 31-MAR-1998; 98US-0080107P.
PR 31-MAR-1998; 98US-0080194P.
PR 01-APR-1998; 98US-0080327P.
PR 01-APR-1998; 98US-0080333P.
PR 08-APR-1998; 98US-0081049P.
PR 08-APR-1998; 98US-0081070P.
PR 09-APR-1998; 98US-0081195P.
PR 15-APR-1998; 98US-0081838P.
PR 21-APR-1998; 98US-0082569P.
PR 21-APR-1998; 98US-0082569P.
PR 22-APR-1998; 98US-0082704P.
PR 22-APR-1998; 98US-0082737P.
PR 28-APR-1998; 98US-0083322P.
PR 29-APR-1998; 98US-0083495P.
PR 29-APR-1998; 98US-0083496P.
PR 29-APR-1998; 98US-0083499P.
PR 29-APR-1998; 98US-0083559P.
PR 05-MAY-1998; 98US-0084366P.
PR 06-MAY-1998; 98US-0084414P.
PR 07-MAY-1998; 98US-0084639P.
PR 07-MAY-1998; 98US-0084640P.
PR 07-MAY-1998; 98US-0084643P.
PR 15-MAY-1998; 98US-0085579P.
PR 15-MAY-1998; 98US-0085580P.
PR 15-MAY-1998; 98US-0085582P.
PR 15-MAY-1998; 98US-0085700P.
PR 18-MAY-1998; 98US-0086023P.
PR 22-MAY-1998; 98US-0086392P.
PR 22-MAY-1998; 98US-0086486P.
PR 28-MAY-1998; 98US-0087098P.
PR 28-MAY-1998; 98US-0087208P.
PR 02-JUN-1998; 98US-0087609P.
PR 02-JUN-1998; 98US-0087759P.
PR 03-JUN-1998; 98US-0087827P.
PR 04-JUN-1998; 98US-0088025P.
PR 04-JUN-1998; 98US-0088028P.
PR 04-JUN-1998; 98US-0088029P.
PR 04-JUN-1998; 98US-0088033P.
PR 04-JUN-1998; 98US-0088326P.
PR 05-JUN-1998; 98US-0088167P.
PR 05-JUN-1998; 98US-0088202P.
PR 05-JUN-1998; 98US-0088212P.
PR 05-JUN-1998; 98US-0088217P.
PR 09-JUN-1998; 98US-0088555P.
PR 10-JUN-1998; 98US-0088722P.
PR 10-JUN-1998; 98US-0088738P.
PR 10-JUN-1998; 98US-0088740P.
PR 10-JUN-1998; 98US-0088811P.
PR 10-JUN-1998; 98US-0088824P.
PR 10-JUN-1998; 98US-0088825P.
PR 10-JUN-1998; 98US-0088826P.
PR 11-JUN-1998; 98US-0088861P.
PR 11-JUN-1998; 98US-0088863P.
PR 11-JUN-1998; 98US-0088876P.
PR 12-JUN-1998; 98US-0089090P.
PR 12-JUN-1998; 98US-0089105P.
PR 16-JUN-1998; 98US-0089512P.
PR 16-JUN-1998; 98US-0089514P.
PR 17-JUN-1998; 98US-0089538P.
PR 17-JUN-1998; 98US-0089598P.
PR 17-JUN-1998; 98US-0089653P.
PR 18-JUN-1998; 98US-0089908P.
PR 19-JUN-1998; 98US-0089952P.
PR 22-JUN-1998; 98US-0090246P.
PR 22-JUN-1998; 98US-0090252P.
PR 22-JUN-1998; 98US-0090254P.
PR 24-JUN-1998; 98US-0090429P.
PR 24-JUN-1998; 98US-0090435P.
PR 24-JUN-1998; 98US-0090444P.
PR 24-JUN-1998; 98US-0090461P.
PR 24-JUN-1998; 98US-0090535P.
PR 24-JUN-1998; 98US-0090540P.
PR 25-JUN-1998; 98US-0090676P.
PR 25-JUN-1998; 98US-0090678P.
PR 25-JUN-1998; 98US-0090688P.
PR 25-JUN-1998; 98US-0090690P.
PR 25-JUN-1998; 98US-0090694P.
PR 25-JUN-1998; 98US-0090695P.
PR 25-JUN-1998; 98US-0090896P.
PR 26-JUN-1998; 98US-00105413.
PR 26-JUN-1998; 98US-0090862P.
PR 26-JUN-1998; 98US-0090863P.
PR 26-JUN-1998; 98US-0091010P.
PR 01-JUL-1998; 98US-0091359P.
PR 01-JUL-1998; 98US-0091544P.
PR 02-JUL-1998; 98US-0091478P.
PR 02-JUL-1998; 98US-0091486P.
PR 02-JUL-1998; 98US-0091626P.
PR 02-JUL-1998; 98US-0091628P.
PR 02-JUL-1998; 98US-0091632P.
PR 24-JUL-1998; 98US-0094006P.
PR 04-AUG-1998; 98US-0095282P.
PR 10-AUG-1998; 98US-0095998P.
PR 10-AUG-1998; 98US-0096012P.
PR 17-AUG-1998; 98US-0096757P.
PR 17-AUG-1998; 98US-0096766P.
PR 17-AUG-1998; 98US-0096867P.

```
PR 17-AUG-1998; 98US-0096891P.
PR 17-AUG-1998; 98US-0096897P.
PR 18-AUG-1998; 98US-0096949P.
PR 18-AUG-1998; 98US-0096959P.
PR 18-AUG-1998; 98US-0097022P.
PR 26-AUG-1998; 98US-0097952P.
PR 26-AUG-1998; 98US-0097954P.
PR 26-AUG-1998; 98US-0097955P.
PR 26-AUG-1998; 98US-0097971P.
PR 26-AUG-1998; 98US-0097974P.
PR 26-AUG-1998; 98US-0098014P.
PR 01-SEP-1998; 98US-0098716P.
PR 01-SEP-1998; 98US-0098723P.
PR 02-SEP-1998; 98US-0098803P.
PR 02-SEP-1998; 98US-0098821P.
PR 02-SEP-1998; 98US-0098843P.
PR 02-SEP-1998; 98US-0098843P.
PR 02-SEP-1998; 98US-0099602P.
PR 10-SEP-1998; 98US-0099741P.
PR 10-SEP-1998; 98US-0099754P.
PR 10-SEP-1998; 98US-0099763P.
PR 10-SEP-1998; 98US-0099812P.
PR 15-SEP-1998; 98US-0100388P.
PR 16-SEP-1998; 98US-0100662P.
PR 16-SEP-1998; 98US-0100664P.
PR 16-SEP-1998; 98US-0101751P.
PR 16-SEP-1998; 98WO-US019330.
PR 17-SEP-1998; 98US-0100683P.
PR 17-SEP-1998; 98US-0100684P.
PR 17-SEP-1998; 98US-0100919P.
PR 17-SEP-1998; 98US-0100930P.
PR 18-SEP-1998; 98US-0100849P.
PR 18-SEP-1998; 98US-0101014P.
PR 18-SEP-1998; 98US-0101068P.
PR 23-SEP-1998; 98US-0101471P.
PR 23-SEP-1998; 98US-0101472P.
PR 23-SEP-1998; 98US-0101475P.
PR 23-SEP-1998; 98US-0101477P.
PR 24-SEP-1998; 98US-0101738P.
PR 24-SEP-1998; 98US-0101739P.
PR 24-SEP-1998; 98US-0101743P.
PR 24-SEP-1998; 98US-0101743P.
PR 24-SEP-1998; 98US-0101922P.
PR 25-SEP-1998; 98US-0101786P.
PR 25-SEP-1998; 98US-0102207P.
PR 25-SEP-1998; 98US-0102207P.
PR 29-SEP-1998; 98US-0102240P.
PR 29-SEP-1998; 98US-0102330P.
PR 29-SEP-1998; 98US-0102331P.
PR 30-SEP-1998; 98US-0102487P.
PR 30-SEP-1998; 98US-0102570P.
PR 30-SEP-1998; 98US-0102571P.
PR 01-OCT-1998; 98US-0102684P.
PR 01-OCT-1998; 98US-0102687P.
PR 02-OCT-1998; 98US-0102965P.
PR 06-OCT-1998; 98US-0103258P.
PR 06-OCT-1998; 98US-0103449P.
PR 07-OCT-1998; 98US-00168978.

Query Match 35.58; Score 150; DB 6; Length 440;
Best Local Similarity 100.0%; Pred. No. 7.7e-135;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 16 SAALAIPTGQQLFTKDVTVIEGEVATISCQVKNKSDSVIQLNPNRQTIYFRDPRPLK 75
Db 32 SAALAIPTGQQLFTKDVTVIEGEVATISCQVKNKSDSVIQLNPNRQTIYFRDPRPLK 91
Qy 76 DSRFQLNFFSSSELKVLSTNVISDEGRYFCQLYDTPPQSSYTTITVLVPPRNLMDIQK 135
Db 92 DSRFQLNFFSSSELKVLSTNVISDEGRYFCQLYDTPPQSSYTTITVLVPPRNLMDIQK 151
Qy 136 DTAVEGEIEVNCNTAMASKPATIRWFKGN 165
Db 152 DTAVEGEIEVNCNTAMASKPATIRWFKGN 181
```

RESULT 68
ABU95225
ID ABU95225 standard; protein; 440 AA.
XX
AC ABU95225;
XX
DT 24-JUL-2003 (first entry)
XX
DE Novel human secreted and transmembrane protein PRO355.
XX
KW Human; secreted and transmembrane protein; PRO; cytostatic; gene therapy;
KW chromosome mapping; gene mapping; transgenic animal; knock-out animal;
tumour.
XX
OS Homo sapiens.
XX
PN US2003036117-A1.
XX
PD 20-FEB-2003.
XX
PF 21-JUN-2002; 2002US-00176751.
XX
PR 18-SEP-1997; 97US-0059263P.
PR 18-SEP-1997; 97US-0059266P.
PR 17-OCT-1997; 97US-0062250P.
PR 21-OCT-1997; 97US-0063486P.
PR 24-OCT-1997; 97US-0063120P.
PR 24-OCT-1997; 97US-0063121P.
PR 28-OCT-1997; 97US-0063540P.
PR 28-OCT-1997; 97US-0063541P.
PR 28-OCT-1997; 97US-0063544P.
PR 28-OCT-1997; 97US-0063564P.
PR 29-OCT-1997; 97US-0063734P.
PR 31-OCT-1997; 97US-0063870P.
PR 31-OCT-1997; 97US-0064103P.
PR 13-NOV-1997; 97US-0065311P.
PR 21-NOV-1997; 97US-0066120P.
PR 24-NOV-1997; 97US-0066466P.
PR 24-NOV-1997; 97US-0066772P.
PR 11-DEC-1997; 97US-0069335P.
PR 12-DEC-1997; 97US-0069425P.
PR 17-DEC-1997; 97US-0069870P.
PR 18-DEC-1997; 97US-0068017P.
PR 10-MAR-1998; 98US-0077450P.
PR 11-MAR-1998; 98US-0077632P.
PR 11-MAR-1998; 98US-0077649P.
PR 20-MAR-1998; 98US-0078886P.
PR 20-MAR-1998; 98US-0078939P.
PR 27-MAR-1998; 98US-0079664P.
PR 31-MAR-1998; 98US-0079786P.
PR 31-MAR-1998; 98US-0080107P.
PR 31-MAR-1998; 98US-0080194P.
PR 01-APR-1998; 98US-0080327P.
PR 01-APR-1998; 98US-0080333P.
PR 08-APR-1998; 98US-0081049P.
PR 08-APR-1998; 98US-0081070P.
PR 09-APR-1998; 98US-0081195P.
PR 15-APR-1998; 98US-0081838P.
PR 21-APR-1998; 98US-0082568P.
PR 22-APR-1998; 98US-0082569P.
PR 22-APR-1998; 98US-0082704P.
PR 22-APR-1998; 98US-0082797P.
PR 28-APR-1998; 98US-0083322P.
PR 28-APR-1998; 98US-0083495P.
PR 29-APR-1998; 98US-0083496P.
PR 29-APR-1998; 98US-0083499P.
PR 29-APR-1998; 98US-0083559P.
PR 05-MAY-1998; 98US-0084366P.
PR 06-MAY-1998; 98US-0084414P.
PR 07-MAY-1998; 98US-0084639P.
PR 07-MAY-1998; 98US-0084640P.
PR 15-MAY-1998; 98US-0084643P.
PR 15-MAY-1998; 98US-0085579P.

RESULT 69
ABU71128
ID ABU71128 standard; protein; 440 AA.
XX AC ABU71128;
XX
XX 10-JUN-2003 (first entry)
XX
XX Human PRO355 protein.
XX
XX Human; PRO; secreted; transmembrane; cytotstatic; TNF-alpha; blood;
KW tumour necrosis factor alpha release; chondrocyte cell; proliferation;
XX differentiation; tumour; gene therapy.
XX Homo sapiens.
XX
XX US2003036143-A1.
XX
XX 20-FEB-2003.
XX
XX 02-JUL-2002; 2002US-00187600.
XX
PR 18-SEP-1997; 97US-0059263P.
PR 18-SEP-1997; 97US-0059266P.
PR 17-OCT-1997; 97US-0062250P.
PR 21-OCT-1997; 97US-0063486P.
PR 24-OCT-1997; 97US-0063120P.
PR 24-OCT-1997; 97US-0063121P.
PR 28-OCT-1997; 97US-0063540P.
PR 28-OCT-1997; 97US-0063541P.
PR 28-OCT-1997; 97US-0063544P.
PR 28-OCT-1997; 97US-0063564P.
PR 29-OCT-1997; 97US-0063734P.
PR 31-OCT-1997; 97US-0063870P.
PR 31-OCT-1997; 97US-0064103P.
PR 13-NOV-1997; 97US-0065311P.
PR 21-NOV-1997; 97US-0066120P.
PR 24-NOV-1997; 97US-0066466P.
PR 24-NOV-1997; 97US-0066772P.
PR 11-DEC-1997; 97US-0069335P.
PR 12-DEC-1997; 97US-0069425P.
PR 17-DEC-1997; 97US-0069870P.
PR 18-DEC-1997; 97US-0068017P.
PR 10-MAR-1998; 98US-0077450P.
PR 11-MAR-1998; 98US-0077632P.
PR 11-MAR-1998; 98US-0077649P.
PR 20-MAR-1998; 98US-0078886P.
PR 20-MAR-1998; 98US-0078939P.
PR 27-MAR-1998; 98US-0079664P.
PR 27-MAR-1998; 98US-0079786P.
PR 31-MAR-1998; 98US-0080107P.
PR 31-MAR-1998; 98US-0080194P.
PR 01-APR-1998; 98US-0080327P.
PR 01-APR-1998; 98US-0080333P.
PR 08-APR-1998; 98US-0081049P.
PR 08-APR-1998; 98US-0081070P.
PR 09-APR-1998; 98US-0081195P.
PR 15-APR-1998; 98US-0081838P.
PR 21-APR-1998; 98US-0082568P.
PR 21-APR-1998; 98US-0082569P.
PR 22-APR-1998; 98US-0082704P.
PR 22-APR-1998; 98US-0082797P.
PR 28-APR-1998; 98US-0083322P.
PR 29-APR-1998; 98US-0083459P.
PR 29-APR-1998; 98US-0083496P.
PR 29-APR-1998; 98US-0083499P.
PR 29-APR-1998; 98US-0083559P.
PR 05-MAY-1998; 98US-0084366P.
PR 06-MAY-1998; 98US-0084414P.
PR 07-MAY-1998; 98US-0084639P.
PR 07-MAY-1998; 98US-0084640P.
PR 07-MAY-1998; 98US-0084643P.
PR 17-MAY-1998; 98US-0084643P.
PR 15-MAY-1998; 98US-0085579P.
PR 15-MAY-1998; 98US-0085580P.
PR 15-MAY-1998; 98US-0085582P.
PR 15-MAY-1998; 98US-0085700P.
PR 18-MAY-1998; 98US-0086023P.
PR 22-MAY-1998; 98US-0086392P.
PR 22-MAY-1998; 98US-0086486P.
PR 28-MAY-1998; 98US-0087098P.
PR 28-MAY-1998; 98US-0087208P.
PR 02-JUN-1998; 98US-0087609P.
PR 02-JUN-1998; 98US-0087759P.
PR 03-JUN-1998; 98US-0087827P.
PR 04-JUN-1998; 98US-0088025P.
PR 04-JUN-1998; 98US-0088028P.
PR 04-JUN-1998; 98US-0088029P.
PR 04-JUN-1998; 98US-0088033P.
PR 04-JUN-1998; 98US-0088326P.
PR 05-JUN-1998; 98US-0088167P.
PR 05-JUN-1998; 98US-0088202P.
PR 05-JUN-1998; 98US-0088212P.
PR 05-JUN-1998; 98US-0088217P.
PR 05-JUN-1998; 98US-0088555P.
PR 10-JUN-1998; 98US-0088722P.
PR 10-JUN-1998; 98US-0088738P.
PR 10-JUN-1998; 98US-0088740P.
PR 10-JUN-1998; 98US-0088811P.
PR 10-JUN-1998; 98US-0088824P.
PR 10-JUN-1998; 98US-0088825P.
PR 10-JUN-1998; 98US-0088826P.
PR 11-JUN-1998; 98US-0088861P.
PR 11-JUN-1998; 98US-0088863P.
PR 11-JUN-1998; 98US-0088876P.
PR 12-JUN-1998; 98US-0089090P.
PR 12-JUN-1998; 98US-0089105P.
PR 16-JUN-1998; 98US-0089512P.
PR 16-JUN-1998; 98US-0089514P.
PR 17-JUN-1998; 98US-0089538P.
PR 17-JUN-1998; 98US-0089598P.
PR 17-JUN-1998; 98US-0089653P.
PR 18-JUN-1998; 98US-0089908P.
PR 19-JUN-1998; 98US-0089952P.
PR 22-JUN-1998; 98US-0090346P.
PR 22-JUN-1998; 98US-0090252P.
PR 22-JUN-1998; 98US-0090254P.
PR 24-JUN-1998; 98US-0090429P.
PR 24-JUN-1998; 98US-0090435P.
PR 24-JUN-1998; 98US-0090444P.
PR 24-JUN-1998; 98US-0090461P.
PR 24-JUN-1998; 98US-0090535P.
PR 24-JUN-1998; 98US-0090540P.
PR 25-JUN-1998; 98US-0090676P.
PR 25-JUN-1998; 98US-0090678P.
PR 25-JUN-1998; 98US-0090688P.
PR 25-JUN-1998; 98US-0090690P.
PR 25-JUN-1998; 98US-0090694P.
PR 25-JUN-1998; 98US-0090695P.
PR 25-JUN-1998; 98US-0090696P.
PR 25-JUN-1998; 98US-00105413.
PR 26-JUN-1998; 98US-0090862P.
PR 26-JUN-1998; 98US-0090863P.
PR 26-JUN-1998; 98US-0091010P.
PR 01-JUL-1998; 98US-0091359P.
PR 01-JUL-1998; 98US-0091544P.
PR 02-JUL-1998; 98US-0091478P.
PR 02-JUL-1998; 98US-0091486P.
PR 02-JUL-1998; 98US-0091626P.
PR 02-JUL-1998; 98US-0091628P.
PR 02-JUL-1998; 98US-0091632P.
PR 24-JUL-1998; 98US-0094006P.
PR 04-AUG-1998; 98US-0095282P.
PR 10-AUG-1998; 98US-0095398P.
PR 10-AUG-1998; 98US-0096012P.
PR 17-AUG-1998; 98US-0096757P.

```
PR 17-AUG-1998; 98US-0096766P.
PR 17-AUG-1998; 98US-0096967P.
PR 17-AUG-1998; 98US-0096891P.
PR 17-AUG-1998; 98US-0096897P.
PR 18-AUG-1998; 98US-0096949P.
PR 18-AUG-1998; 98US-0096959P.
PR 18-AUG-1998; 98US-0097022P.
PR 26-AUG-1998; 98US-0097952P.
PR 26-AUG-1998; 98US-0097954P.
PR 26-AUG-1998; 98US-0097955P.
PR 26-AUG-1998; 98US-0097971P.
PR 26-AUG-1998; 98US-0097977P.
PR 26-AUG-1998; 98US-0098014P.
PR 01-SEP-1998; 98US-0098716P.
PR 01-SEP-1998; 98US-0098723P.
PR 02-SEP-1998; 98US-0098803P.
PR 02-SEP-1998; 98US-0098821P.
PR 02-SEP-1998; 98US-0098822P.
PR 09-SEP-1998; 98US-0098843P.
PR 09-SEP-1998; 98US-0099602P.
PR 10-SEP-1998; 98US-0099741P.
PR 10-SEP-1998; 98US-0099754P.
PR 10-SEP-1998; 98US-0099755P.
PR 10-SEP-1998; 98US-0099763P.
PR 10-SEP-1998; 98US-0099812P.
PR 15-SEP-1998; 98US-0100388P.
PR 16-SEP-1998; 98US-0100662P.
PR 16-SEP-1998; 98US-0100664P.
PR 16-SEP-1998; 98US-0101751P.
PR 16-SEP-1998; 98WO-US0119330.
PR 17-SEP-1998; 98US-0100683P.
PR 17-SEP-1998; 98US-0100684P.
PR 17-SEP-1998; 98US-0100919P.
PR 17-SEP-1998; 98US-0100930P.
PR 18-SEP-1998; 98US-0100849P.
PR 18-SEP-1998; 98US-0101014P.
PR 18-SEP-1998; 98US-0101068P.
PR 23-SEP-1998; 98US-0101471P.
PR 23-SEP-1998; 98US-0101472P.
PR 23-SEP-1998; 98US-0101475P.
PR 23-SEP-1998; 98US-0101477P.
PR 24-SEP-1998; 98US-0101738P.
PR 24-SEP-1998; 98US-0101739P.
PR 24-SEP-1998; 98US-0101743P.
PR 24-SEP-1998; 98US-0101922P.
PR 25-SEP-1998; 98US-0101786P.
PR 25-SEP-1998; 98US-0102207P.
PR 25-SEP-1998; 98US-0102240P.
PR 25-SEP-1998; 98US-0102330P.
PR 25-SEP-1998; 98US-0102331P.
PR 30-SEP-1998; 98US-0102487P.
PR 30-SEP-1998; 98US-0102570P.
PR 30-SEP-1998; 98US-0102571P.
PR 01-OCT-1998; 98US-0102684P.
PR 01-OCT-1998; 98US-0102687P.
PR 02-OCT-1998; 98US-0102965P.
PR 06-OCT-1998; 98US-0103258P.
PR 06-OCT-1998; 98US-0103449P.
PR 07-OCT-1998; 98US-00168978.

Query Match 35.5%; Score 150; DB 6; Length 440;
Best Local Similarity 100.0%; Pred. No. 7.7e-135;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 16 SAALIPGTGQNLFTKDVTVIEGEVATISQVKNKSDSVIQLLNPNRQTIYFRDFRPLK 75
Db 32 SAALIPGTGQNLFTKDVTVIEGEVATISQVKNKSDSVIQLLNPNRQTIYFRDFRPLK 91
Qy 76 DSRFQLNFSSELKVLSTNVSISDEGRYFCOLYTDPPQESYTTITVLPVPRNLMDIQK 135
Db 92 DSRFQLNFSSELKVLSTNVSISDEGRYFCOLYTDPPQESYTTITVLPVPRNLMDIQK 151
Qy 136 DTAVEGEIEVNCVTAMASKATTIRWFKGN 165
Db 152 DTAVEGEIEVNCVTAMASKATTIRWFKGN 181
```

RESULT 70

ABO07738

ID ABO07738 standard; protein; 440 AA.

XX AC ABO07738;

XX DT 18-AUG-2003 (first entry)

XX DE Human PRO polypeptide #17.

XX KW Human; PRO; secreted polypeptide; transmembrane polypeptide; cytosolic;
tumour necrosis factor-alpha; TNF-alpha; blood; tumour; chondrocyte cell;
XX KW cancer; adrenal; lung; colon; breast; prostate; cervix; liver.

XX OS Homo sapiens.

XX PN US2003032130-A1.

XX PD 13-FEB-2003.

XX PF 28-JUN-2002; 2002US-00184635.

XX PR 18-SEP-1997; 97US-0059263P.

XX PR 18-SEP-1997; 97US-0059266P.

XX PR 21-OCT-1997; 97US-0062250P.

XX PR 24-OCT-1997; 97US-0063486P.

XX PR 24-OCT-1997; 97US-0063120P.

XX PR 24-OCT-1997; 97US-0063121P.

XX PR 28-OCT-1997; 97US-0063540P.

XX PR 28-OCT-1997; 97US-0063541P.

XX PR 28-OCT-1997; 97US-0063544P.

XX PR 28-OCT-1997; 97US-0063564P.

XX PR 31-OCT-1997; 97US-0063734P.

XX PR 31-OCT-1997; 97US-0063870P.

XX PR 13-NOV-1997; 97US-0064103P.

XX PR 21-NOV-1997; 97US-0065311P.

XX PR 24-NOV-1997; 97US-0066120P.

XX PR 24-NOV-1997; 97US-0066466P.

XX PR 11-DEC-1997; 97US-0066772P.

XX PR 12-DEC-1997; 97US-0069335P.

XX PR 17-DEC-1997; 97US-0069425P.

XX PR 18-DEC-1997; 97US-0069870P.

XX PR 10-MAR-1998; 97US-0068017P.

XX PR 11-MAR-1998; 98US-0077632P.

XX PR 11-MAR-1998; 98US-0077649P.

XX PR 20-MAR-1998; 98US-0078866P.

XX PR 20-MAR-1998; 98US-0078939P.

XX PR 27-MAR-1998; 98US-0079664P.

XX PR 31-MAR-1998; 98US-0079786P.

XX PR 31-MAR-1998; 98US-0080107P.

XX PR 01-APR-1998; 98US-0080194P.

XX PR 01-APR-1998; 98US-0080327P.

XX PR 01-APR-1998; 98US-0080333P.

XX PR 08-APR-1998; 98US-0081049P.

XX PR 08-APR-1998; 98US-0081070P.

XX PR 09-APR-1998; 98US-0081195P.

XX PR 15-APR-1998; 98US-0081838P.

XX PR 21-APR-1998; 98US-0082568P.

XX PR 21-APR-1998; 98US-0082569P.

XX PR 22-APR-1998; 98US-0082704P.

XX PR 22-APR-1998; 98US-0082797P.

XX PR 28-APR-1998; 98US-0083322P.

XX PR 29-APR-1998; 98US-0083495P.

XX PR 29-APR-1998; 98US-0083496P.

XX PR 29-APR-1998; 98US-0083499P.

XX PR 29-APR-1998; 98US-0083559P.

XX PR 05-MAY-1998; 98US-0084366P.

XX PR 06-MAY-1998; 98US-0084414P.

XX PR 07-MAY-1998; 98US-0084639P.

XX PR 07-MAY-1998; 98US-0084640P.

| | | | | | |
|----|--------------|--|--|--------------|----------------|
| PR | 07-MAY-1998; | 98US-0084643P. | PR | 17-AUG-1998; | 98US-0096757P. |
| PR | 15-MAY-1998; | 98US-0085579P. | PR | 17-AUG-1998; | 98US-0096766P. |
| PR | 15-MAY-1998; | 98US-0085580P. | PR | 17-AUG-1998; | 98US-0096867P. |
| PR | 15-MAY-1998; | 98US-0085582P. | PR | 17-AUG-1998; | 98US-0096891P. |
| PR | 15-MAY-1998; | 98US-0085700P. | PR | 17-AUG-1998; | 98US-0096897P. |
| PR | 18-MAY-1998; | 98US-0086023P. | PR | 18-AUG-1998; | 98US-0096949P. |
| PR | 22-MAY-1998; | 98US-0086332P. | PR | 18-AUG-1998; | 98US-0096959P. |
| PR | 22-MAY-1998; | 98US-0086486P. | PR | 18-AUG-1998; | 98US-0097022P. |
| PR | 28-MAY-1998; | 98US-0087098P. | PR | 26-AUG-1998; | 98US-0097952P. |
| PR | 28-MAY-1998; | 98US-0087208P. | PR | 26-AUG-1998; | 98US-0097954P. |
| PR | 02-JUN-1998; | 98US-0087609P. | PR | 26-AUG-1998; | 98US-0097955P. |
| PR | 02-JUN-1998; | 98US-0087759P. | PR | 26-AUG-1998; | 98US-0097971P. |
| PR | 03-JUN-1998; | 98US-0087872P. | PR | 26-AUG-1998; | 98US-0097974P. |
| PR | 04-JUN-1998; | 98US-0088025P. | PR | 26-AUG-1998; | 98US-0098014P. |
| PR | 04-JUN-1998; | 98US-0088028P. | PR | 01-SEP-1998; | 98US-0098716P. |
| PR | 04-JUN-1998; | 98US-0088029P. | PR | 01-SEP-1998; | 98US-0098723P. |
| PR | 04-JUN-1998; | 98US-0088033P. | PR | 02-SEP-1998; | 98US-0098803P. |
| PR | 04-JUN-1998; | 98US-0088326P. | PR | 02-SEP-1998; | 98US-0098821P. |
| PR | 05-JUN-1998; | 98US-0088167P. | PR | 02-SEP-1998; | 98US-0098843P. |
| PR | 05-JUN-1998; | 98US-0088202P. | PR | 09-SEP-1998; | 98US-0099602P. |
| PR | 05-JUN-1998; | 98US-0088212P. | PR | 10-SEP-1998; | 98US-0099741P. |
| PR | 09-JUN-1998; | 98US-0088217P. | PR | 10-SEP-1998; | 98US-0099754P. |
| PR | 09-JUN-1998; | 98US-0088655P. | PR | 10-SEP-1998; | 98US-0099763P. |
| PR | 10-JUN-1998; | 98US-0088722P. | PR | 10-SEP-1998; | 98US-0099812P. |
| PR | 10-JUN-1998; | 98US-0088738P. | PR | 15-SEP-1998; | 98US-0100388P. |
| PR | 10-JUN-1998; | 98US-0088740P. | PR | 16-SEP-1998; | 98US-0100662P. |
| PR | 10-JUN-1998; | 98US-0088811P. | PR | 16-SEP-1998; | 98US-0100664P. |
| PR | 10-JUN-1998; | 98US-0088824P. | PR | 16-SEP-1998; | 98US-0101751P. |
| PR | 10-JUN-1998; | 98US-0088825P. | PR | 16-SEP-1998; | 98US-0101751P. |
| PR | 10-JUN-1998; | 98US-0088826P. | PR | 17-SEP-1998; | 98US-0100684P. |
| PR | 11-JUN-1998; | 98US-0088861P. | PR | 17-SEP-1998; | 98US-0100684P. |
| PR | 11-JUN-1998; | 98US-0088863P. | PR | 17-SEP-1998; | 98US-0100919P. |
| PR | 11-JUN-1998; | 98US-0088876P. | PR | 17-SEP-1998; | 98US-0100930P. |
| PR | 12-JUN-1998; | 98US-0088877P. | PR | 18-SEP-1998; | 98US-0100849P. |
| PR | 12-JUN-1998; | 98US-0089050P. | PR | 18-SEP-1998; | 98US-0101014P. |
| PR | 12-JUN-1998; | 98US-0089105P. | PR | 18-SEP-1998; | 98US-0101014P. |
| PR | 16-JUN-1998; | 98US-0089512P. | PR | 23-SEP-1998; | 98US-0101068P. |
| PR | 16-JUN-1998; | 98US-0089514P. | PR | 23-SEP-1998; | 98US-0101471P. |
| PR | 17-JUN-1998; | 98US-0089538P. | PR | 23-SEP-1998; | 98US-0101472P. |
| PR | 17-JUN-1998; | 98US-0089598P. | PR | 23-SEP-1998; | 98US-0101475P. |
| PR | 17-JUN-1998; | 98US-0089653P. | PR | 23-SEP-1998; | 98US-0101477P. |
| PR | 18-JUN-1998; | 98US-0089908P. | PR | 24-SEP-1998; | 98US-0101738P. |
| PR | 19-JUN-1998; | 98US-0089952P. | PR | 24-SEP-1998; | 98US-0101739P. |
| PR | 22-JUN-1998; | 98US-0090246P. | PR | 24-SEP-1998; | 98US-0101743P. |
| PR | 22-JUN-1998; | 98US-0090252P. | PR | 24-SEP-1998; | 98US-0101922P. |
| PR | 22-JUN-1998; | 98US-0090254P. | PR | 25-SEP-1998; | 98US-0101786P. |
| PR | 24-JUN-1998; | 98US-0090429P. | PR | 25-SEP-1998; | 98US-0102207P. |
| PR | 24-JUN-1998; | 98US-0090435P. | PR | 29-SEP-1998; | 98US-0102240P. |
| PR | 24-JUN-1998; | 98US-0090444P. | PR | 29-SEP-1998; | 98US-0102330P. |
| PR | 24-JUN-1998; | 98US-0090461P. | PR | 29-SEP-1998; | 98US-0102331P. |
| PR | 24-JUN-1998; | 98US-0090535P. | PR | 30-SEP-1998; | 98US-0102487P. |
| PR | 24-JUN-1998; | 98US-0090540P. | PR | 30-SEP-1998; | 98US-0102570P. |
| PR | 25-JUN-1998; | 98US-0090676P. | PR | 30-SEP-1998; | 98US-0102571P. |
| PR | 25-JUN-1998; | 98US-0090678P. | PR | 01-OCT-1998; | 98US-0102684P. |
| PR | 25-JUN-1998; | 98US-0090688P. | PR | 01-OCT-1998; | 98US-0102687P. |
| PR | 25-JUN-1998; | 98US-0090690P. | PR | 02-OCT-1998; | 98US-0102965P. |
| PR | 25-JUN-1998; | 98US-0090694P. | PR | 06-OCT-1998; | 98US-0103258P. |
| PR | 25-JUN-1998; | 98US-0090695P. | PR | 06-OCT-1998; | 98US-0103449P. |
| PR | 25-JUN-1998; | 98US-0090696P. | PR | 07-OCT-1998; | 98US-00168978. |
| PR | 26-JUN-1998; | 98US-00105413. | | | |
| PR | 26-JUN-1998; | 98US-0090862P. | | | |
| PR | 26-JUN-1998; | 98US-0090863P. | | | |
| PR | 26-JUN-1998; | 98US-0091010P. | | | |
| PR | 01-JUL-1998; | 98US-0091359P. | | | |
| PR | 01-JUL-1998; | 98US-0091544P. | | | |
| PR | 02-JUL-1998; | 98US-0091478P. | | | |
| PR | 02-JUL-1998; | 98US-0091866P. | | | |
| PR | 02-JUL-1998; | 98US-0091626P. | | | |
| PR | 02-JUL-1998; | 98US-0091632P. | | | |
| PR | 02-JUL-1998; | 98US-0091632P. | | | |
| PR | 24-JUL-1998; | 98US-0094006P. | | | |
| PR | 04-AUG-1998; | 98US-0095282P. | | | |
| PR | 10-AUG-1998; | 98US-0095998P. | | | |
| PR | 10-AUG-1998; | 98US-0096012P. | | | |
| | | | Query Match 35.5%; Score 150; DB 6; Length 440; | | |
| | | | Best Local Similarity 100.0%; Pred. No. 7.7e-135; | | |
| | | | Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0; | | |
| Qy | 16 | SAALPIGTGGQNLFTKDVTVIEGEVATISCVNKSDSDSVIQLLNPNROTIIYRDRPLK 75 | | | |
| | | | | | |
| Db | 32 | SAALPIGTGGQNLFTKDVTVIEGEVATISCVNKSDSDSVIQLLNPNROTIIYRDRPLK 91 | | | |
| | | | | | |
| Qy | 76 | DSRFQLLNFSSSELKVSLTNVTSISDEGRYFCOLYTPPOESYTTITVLVPPRNLMIDIOK 135 | | | |
| | | | | | |
| Db | 92 | DSRFQLLNFSSSELKVSLTNVTSISDEGRYFCOLYTPPOESYTTITVLVPPRNLMIDIOK 151 | | | |
| | | | | | |
| Qy | 136 | DTAVEGEEIEVNCTAMASKPATIRWFKGN 165 | | | |
| | | | | | |

```
Db      152 DTAVEGEIEVNCTAMASKPATIRWFKGN 181
RESULT 71
ABR69979
ID      ABR69979 standard; protein; 440 AA.
XX      ABR69979;
XX      AC
XX      XX
DT      19-AUG-2003 (first entry)
XX      DE
XX      DE
XX      Human secreted polypeptide PRO355, SEQ ID NO:34.
KW      Human; PRO; secreted protein; transmembrane protein;
KW      extracellular domain; tumour necrosis factor-alpha; TNF-alpha;
KW      chondrocyte; proliferation; differentiation; cartilage disorder;
KW      bone disorder; arthritis; sports injury; cancer; tumour; diagnosis;
KW      adrenal tumour; lung; colon; breast; prostate; kidney; rectum; cervix;
KW      liver; drug screening; transgenic animal; genetic analysis;
KW      antiarthritic; vulnery; gene therapy.
XX      OS
XX      Homo sapiens.
XX      XX
XX      US2003032138-A1.
XX      PD
XX      13-FEB-2003.
XX      XX
XX      02-JUL-2002; 2002US-00187885.
XX      PR
XX      24-JUN-1998; 98US-0090540P.
XX      16-SEP-1998; 98WO-US019330.
XX      07-OCT-1998; 98WO-US021141.
XX      01-DEC-1998; 98WO-US025108.
XX      08-MAR-1999; 99WO-US005028.
XX      14-MAY-1999; 99WO-US010733.
XX      02-JUN-1999; 99WO-US012252.
XX      26-JUL-1999; 99US-0145698P.
XX      28-AUG-1999; 99US-00380137.
XX      01-SEP-1999; 99WO-US020111.
XX      15-SEP-1999; 99WO-US021090.
XX      15-SEP-1999; 99WO-US021547.
XX      30-NOV-1999; 99WO-US028313.
XX      30-NOV-1999; 99WO-US028409.
XX      01-DEC-1999; 99WO-US028301.
XX      06-JAN-2000; 2000WO-US000219.
XX      11-FEB-2000; 2000WO-US003376.
XX      18-FEB-2000; 2000WO-US003565.
XX      18-FEB-2000; 2000WO-US004341.
XX      18-FEB-2000; 2000WO-US004342.
XX      22-FEB-2000; 2000WO-US004414.
XX      24-FEB-2000; 2000WO-US004914.
XX      24-FEB-2000; 2000WO-US005004.
XX      01-MAR-2000; 2000WO-US005601.
XX      02-MAR-2000; 2000WO-US005841.
XX      10-MAR-2000; 2000WO-US006319.
XX      15-MAR-2000; 2000WO-US006884.
XX      21-MAR-2000; 2000WO-US007532.
XX      30-MAR-2000; 2000WO-US008439.
XX      17-MAY-2000; 2000WO-US013705.
XX      22-MAY-2000; 2000WO-US014042.
XX      30-MAY-2000; 2000WO-US014941.
XX      02-JUN-2000; 2000WO-US015264.
XX      28-JUL-2000; 2000WO-US020710.
XX      24-AUG-2000; 2000WO-US023328.
XX      08-NOV-2000; 2000WO-US030952.
XX      01-DEC-2000; 2000WO-US032678.
XX      20-DEC-2000; 2000WO-US034956.
XX      28-FEB-2001; 2001WO-US006520.

PR      01-JUN-2001; 2001WO-US017800.
PR      20-JUN-2001; 2001WO-US019692.
PR      29-JUN-2001; 2001WO-US021066.
PR      09-JUL-2001; 2001WO-US021735.
PR      29-AUG-2001; 2001WO-US027099.
PR      15-JAN-2002; 2002US-00052586.
XX      (GETH ) GENENTECH INC.
XX      PA
XX      Baker KP, Chen J, Desnoyers L, Goddard A, Godowski PJ, Gurney AL;
XX      Pan J, Smith V, Watanabe CK, Wood WI, Zhang Z;
XX      WPI; 2003-341977/32.
XX      DR
XX      N-PSDB; ACC91010.
XX      PT
XX      New secreted and transmembrane PRO polypeptide useful in preparing a
XX      medicament for treating a condition that is responsive to the PRO
XX      polypeptide or anti-PRO antibody.
XX      PS
XX      Claim 11; Fig 34; 707pp; English.
XX      CC
XX      The invention relates to human PRO secreted/transmembrane polypeptides
XX      (ABR69963-ABR70267) and nucleic acids encoding them (ACC90994-ACC91298).
XX      The invention also relates to sequences at least 80% identical to the PRO
XX      nucleic acid and polypeptide sequences of the invention, recombinant
XX      vectors and host cells comprising a PRO nucleic acid, a method for the
XX      recombinant production of a PRO polypeptide, antibodies against a PRO
XX      polypeptide, and fusion proteins comprising a PRO polypeptide. Nucleic
XX      acids encoding PRO polypeptides of the invention were initially
XX      identified via homology screening using consensus sequences based on the
XX      extracellular domain sequences from known secreted proteins. Human cDNA
XX      libraries containing sequences of interest were identified using
XX      oligonucleotides based on the consensus sequences, and cDNA clones were
XX      isolated and characterised. The PRO polypeptides are useful for
XX      stimulating release of tumour necrosis factor-alpha (TNF-alpha) from
XX      human blood and may thus be used in the treatment of conditions in which
XX      enhanced TNF-alpha release would be beneficial. They are also useful for
XX      stimulating the proliferation or differentiation of chondrocytes and as
XX      such may be used in the treatment of various bone and/or cartilage
XX      disorders such as arthritis and sports injuries. The PRO polypeptides may
XX      be used in a method for detecting the presence of a tumour (e.g., an
XX      adrenal tumour, lung tumour, colon tumour, breast tumour, prostate
XX      tumour, rectal tumour, cervical tumour or liver tumour) in a mammal. This
XX      method involves comparing the level of expression of the PRO polypeptide
XX      in test and control samples, where a higher level of expression of PRO
XX      polypeptide in the test sample as compared to the control sample is
XX      indicative of the presence of a tumour. The PRO polypeptides are
XX      additionally useful for in drug screening to identify agonists and
XX      antagonists of PRO polypeptides. PRO nucleic acids are useful as
XX      hybridisation probes (for isolation of cDNA molecules), in chromosome and
XX      gene mapping, in the generation of antisense RNA and DNA and in gene
XX      therapy. The nucleic acids can also be used for mapping genes encoding
XX      PRO polypeptides, for genetic analysis of individuals with genetic
XX      disorders, and for generating either transgenic animals or knock-out
XX      animals which are useful in the development and screening of
XX      therapeutically useful compounds. Sequences ABR69963-ABR70267 represent
XX      the human PRO secreted/transmembrane polypeptides of the invention. Note:
XX      The sequence data for this patent is also available in electronic format
XX      from USPTO at seqdata.uspto.gov/sequence.html
XX      SQ
XX      Sequence 440 AA;
XX      Query Match 35.5%; Score 150; DB 6; Length 440;
XX      Best Local Similarity 100.0%; Pred. No. 7.7e-135;
XX      Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX      Qy 16 SAAALPTGQGNLFYKDVTVIEGVATISQVKNKSDSVIQLNPNRQIYFDFPLK 75
XX      Db 32 SAAALPTGQGNLFYKDVTVIEGVATISQVKNKSDSVIQLNPNRQIYFDFPLK 91
XX      Qy 76 DSRFOLLNFSSELKSLTNVSIISDEGRYFCQLYTDPQESYTTITVLVPRNLMIQK 135
XX      Db 92 DSRFOLLNFSSELKSLTNVSIISDEGRYFCQLYTDPQESYTTITVLVPRNLMIQK 151
```



```
PR 02-JUL-1998; 98US-0091486P.
PR 02-JUL-1998; 98US-0091626P.
PR 02-JUL-1998; 98US-0091628P.
PR 02-JUL-1998; 98US-0091632P.
PR 04-AUG-1998; 98US-0094006P.
PR 04-AUG-1998; 98US-0095282P.
PR 10-AUG-1998; 98US-0095998P.
PR 10-AUG-1998; 98US-0096012P.
PR 10-AUG-1998; 98US-0096757P.
PR 17-AUG-1998; 98US-0096766P.
PR 17-AUG-1998; 98US-0096867P.
PR 17-AUG-1998; 98US-0096891P.
PR 17-AUG-1998; 98US-0096897P.
PR 18-AUG-1998; 98US-0096949P.
PR 18-AUG-1998; 98US-0096959P.
PR 18-AUG-1998; 98US-0097022P.
PR 26-AUG-1998; 98US-0097952P.
PR 26-AUG-1998; 98US-0097954P.
PR 26-AUG-1998; 98US-0097955P.
PR 26-AUG-1998; 98US-0097971P.
PR 26-AUG-1998; 98US-0097974P.
PR 26-AUG-1998; 98US-0098014P.
PR 01-SEP-1998; 98US-0098716P.
PR 01-SEP-1998; 98US-0098723P.
PR 02-SEP-1998; 98US-0098803P.
PR 02-SEP-1998; 98US-0098821P.
PR 02-SEP-1998; 98US-0098843P.
PR 03-SEP-1998; 98US-0099602P.
PR 10-SEP-1998; 98US-0099741P.
PR 10-SEP-1998; 98US-0099754P.
PR 10-SEP-1998; 98US-0099763P.
PR 10-SEP-1998; 98US-0099812P.
PR 10-SEP-1998; 98US-0100388P.
PR 16-SEP-1998; 98US-0100662P.
PR 16-SEP-1998; 98US-0100664P.
PR 16-SEP-1998; 98US-0101751P.
PR 16-SEP-1998; 98US-0101933P.
PR 17-SEP-1998; 98US-0100683P.
PR 17-SEP-1998; 98US-0100684P.
PR 17-SEP-1998; 98US-0100919P.
PR 17-SEP-1998; 98US-0101472P.
PR 18-SEP-1998; 98US-0100849P.
PR 18-SEP-1998; 98US-0101014P.
PR 18-SEP-1998; 98US-0101068P.
PR 23-SEP-1998; 98US-0101471P.
PR 23-SEP-1998; 98US-0101472P.
PR 23-SEP-1998; 98US-0101475P.
PR 23-SEP-1998; 98US-0101477P.
PR 24-SEP-1998; 98US-0101738P.
PR 24-SEP-1998; 98US-0101739P.
PR 24-SEP-1998; 98US-0101743P.
PR 24-SEP-1998; 98US-0101922P.
PR 25-SEP-1998; 98US-0101786P.
PR 25-SEP-1998; 98US-0102207P.
PR 25-SEP-1998; 98US-0102240P.
PR 25-SEP-1998; 98US-0102330P.
PR 25-SEP-1998; 98US-0102331P.
PR 30-SEP-1998; 98US-0102487P.
PR 30-SEP-1998; 98US-0102570P.
PR 30-SEP-1998; 98US-0102571P.
PR 01-OCT-1998; 98US-0102684P.
PR 01-OCT-1998; 98US-0102687P.
PR 01-OCT-1998; 98US-0102687P.

Query Match 35.5%; Score 150; DB 6; Length 440;
Best Local Similarity 100.0%; Pred. No. 7.7e-135;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 16 SAALPTGQNLFTKDVTVIEGEVATISCQVKNKSDSVIQLNPNRQTIYFRDPLK 75
Db 32 SAALPTGQNLFTKDVTVIEGEVATISCQVKNKSDSVIQLNPNRQTIYFRDPLK 91
Qy 76 DSRFQLNFSSSELKVSILTNVSIISDEGRYFCQLYTDPQESYTTITVLPVPRNLMIDIOK 135
|||||
```

```
Db 92 DSRFQLNFSSSELKVSILTNVSIISDEGRYFCQLYTDPQESYTTITVLPVPRNLMIDIOK 151
Qy 136 DTAVEGEEIEVNCTAMASKPATTIRWFKGN 165
Db 152 DTAVEGEEIEVNCTAMASKPATTIRWFKGN 181
|||||

RESULT 73
ABO01453
ID ABO01453 standard; protein; 440 AA.
XX ABO01453;
XX
XX 07-AUG-2003 (first entry)
XX Human PRO polypeptide #17.
XX Human; PRO; tumour; cytostatic; cancer; secreted protein; lung;
KW transmembrane protein; tumour necrosis factor alpha; TNF-alpha; adrenal;
KW chondrocyte cell; colon; breast; prostate; rectum; cervix; liver.
XX
XX Homo sapiens.
XX
XX US2003008353-A1.
XX 09-JAN-2003.
XX
XX 21-JUN-2002; 2002US-00176758.
XX
XX 18-SEP-1997; 97US-0059263P.
XX 18-SEP-1997; 97US-0059266P.
XX 17-OCT-1997; 97US-0062250P.
XX 21-OCT-1997; 97US-0063486P.
XX 24-OCT-1997; 97US-0063120P.
XX 24-OCT-1997; 97US-0063121P.
XX 28-OCT-1997; 97US-0063540P.
XX 28-OCT-1997; 97US-0063541P.
XX 28-OCT-1997; 97US-0063544P.
XX 28-OCT-1997; 97US-0063564P.
XX 29-OCT-1997; 97US-0063734P.
XX 31-OCT-1997; 97US-0063870P.
XX 31-OCT-1997; 97US-0064103P.
XX 13-NOV-1997; 97US-0065311P.
XX 21-NOV-1997; 97US-0066120P.
XX 24-NOV-1997; 97US-0066466P.
XX 24-NOV-1997; 97US-0066772P.
XX 11-DEC-1997; 97US-0069335P.
XX 12-DEC-1997; 97US-0069425P.
XX 17-DEC-1997; 97US-0069870P.
XX 18-DEC-1997; 97US-0068017P.
XX 10-MAR-1998; 98US-0077450P.
XX 11-MAR-1998; 98US-0077632P.
XX 11-MAR-1998; 98US-0077649P.
XX 20-MAR-1998; 98US-0078886P.
XX 20-MAR-1998; 98US-0078939P.
XX 27-MAR-1998; 98US-0079664P.
XX 27-MAR-1998; 98US-0079786P.
XX 31-MAR-1998; 98US-0080107P.
XX 31-MAR-1998; 98US-0080194P.
XX 01-APR-1998; 98US-0080327P.
XX 01-APR-1998; 98US-0080333P.
XX 08-APR-1998; 98US-0081049P.
XX 08-APR-1998; 98US-0081070P.
XX 09-APR-1998; 98US-0081838P.
XX 15-APR-1998; 98US-0081955P.
XX 21-APR-1998; 98US-0082568P.
XX 21-APR-1998; 98US-0082569P.
XX 22-APR-1998; 98US-0082704P.
XX 22-APR-1998; 98US-0082797P.
XX 28-APR-1998; 98US-0083322P.
XX 29-APR-1998; 98US-0083495P.
XX 29-APR-1998; 98US-0083496P.
XX 29-APR-1998; 98US-0083499P.
```

| | | | | |
|----|---|------------------|----|---|
| PR | 29-APR-1998; | 98US-0083559P. | CC | USPTO at seqdata.uspto.gov/sequence.html |
| PR | 05-MAY-1998; | 98US-0084366P. | XX | |
| PR | 06-MAY-1998; | 98US-0084414P. | SQ | Sequence 440 AA; |
| PR | 07-MAY-1998; | 98US-0084639P. | | |
| PR | 07-MAY-1998; | 98US-0084640P. | | |
| PR | 16-SEP-1998; | 98WO-US019330. | | Query Match 35.5%; Score 150; DB 6; Length 440; |
| PR | 07-OCT-1998; | 98WO-US021141. | | Best Local Similarity 100.0%; Pred. No. 7.7e-135; |
| PR | 01-DEC-1998; | 98WO-US025108. | | Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0; |
| PR | 08-MAR-1999; | 99WO-US005028. | | |
| PR | 14-MAY-1999; | 99WO-US010733. | | |
| PR | 02-JUN-1999; | 99WO-US012252. | QY | 16 SAAALPTGQGNLFKDVTVIEGEVATISCVNKSDDSVIQLNPNRQTIYFRDPRPLK 75 |
| PR | 01-SEP-1999; | 99WO-US020111. | Db | 32 SAAALPTGQGNLFKDVTVIEGEVATISCVNKSDDSVIQLNPNRQTIYFRDPRPLK 91 |
| PR | 15-SEP-1999; | 99WO-US021090. | QY | 76 DSRFQLNFFSSSELKVLNVSISDGRYFCQLYTDPPQESYTTITVLVPPRNLMDIOK 135 |
| PR | 01-DEC-1999; | 99WO-US028301. | Db | 92 DSRFQLNFFSSSELKVLNVSISDGRYFCQLYTDPPQESYTTITVLVPPRNLMDIOK 151 |
| PR | 02-DEC-1999; | 99WO-US028551. | | |
| PR | 30-DEC-1999; | 99WO-US031274. | QY | 136 DTAVEGEEIEVNCNTAMASKPATTIRWFKGN 165 |
| PR | 05-JAN-2000; | 2000WO-US000219. | Db | 152 DTAVEGEEIEVNCNTAMASKPATTIRWFKGN 181 |
| PR | 18-FEB-2000; | 2000WO-US004341. | | |
| PR | 18-FEB-2000; | 2000WO-US004342. | | |
| PR | 22-FEB-2000; | 2000WO-US004414. | | |
| PR | 24-FEB-2000; | 2000WO-US005004. | | |
| PR | 01-MAR-2000; | 2000WO-US005601. | | |
| PR | 02-MAR-2000; | 2000WO-US005841. | | |
| PR | 15-MAR-2000; | 2000WO-US006884. | | |
| PR | 30-MAR-2000; | 2000WO-US008439. | | |
| PR | 17-MAY-2000; | 2000WO-US013705. | | |
| PR | 22-MAY-2000; | 2000WO-US014042. | | |
| PR | 30-MAY-2000; | 2000WO-US014941. | | |
| PR | 02-JUN-2000; | 2000WO-US015264. | | |
| PR | 28-JUL-2000; | 2000WO-US020710. | | |
| PR | 24-AUG-2000; | 2000WO-US023328. | | |
| PR | 08-NOV-2000; | 2000WO-US030952. | | |
| PR | 01-DEC-2000; | 2000WO-US032678. | | |
| PR | 20-DEC-2000; | 2000WO-US034956. | | |
| PR | 28-FEB-2001; | 2001WO-US006520. | | |
| PR | 01-JUN-2001; | 2001WO-US017800. | | |
| PR | 20-JUN-2001; | 2001WO-US019692. | | |
| PR | 29-JUN-2001; | 2001WO-US021066. | | |
| PR | 05-JUL-2001; | 2001WO-US021735. | | |
| PR | 29-AUG-2001; | 2001WO-US027099. | | |
| PR | 15-JAN-2002; | 2002US-00052586. | | |
| XX | | | | |
| PA | (GETH) GENENTECH INC. | | | |
| XX | | | | |
| XX | Baker KP, Chen J, Desnoyers L, Goddard A, Godowski PJ, Gurney AI; | | | |
| PI | Pan J, Smith V, Watanabe CK, Wood WI, Zhang Z; | | | |
| XX | | | | |
| DR | WPI; 2003-341328/32. | | | |
| DR | N-PSDB; ACD06949. | | | |
| XX | | | | |
| XX | Three hundred and five nucleic acids encoding secreted and transmembrane | | | |
| PT | polypeptides, designated as PRO, useful for detecting the presence of, or | | | |
| PT | treating tumor, e.g. adrenal, lung, colon, breast, prostate, rectal, | | | |
| PT | cervical or liver tumor. | | | |
| XX | | | | |
| PS | Claim 11; Fig 34; 707pp; English. | | | |
| XX | | | | |
| CC | The invention relates to human PRO polypeptides (secreted and | | | |
| CC | transmembrane polypeptides) and the polynucleotides encoding them. The | | | |
| CC | invention also relates to an antibody that specifically binds to a PRO | | | |
| CC | polypeptide, a method for stimulating the release of tumour necrosis | | | |
| CC | factor alpha (TNF-alpha) from human blood by contacting the blood with a | | | |
| CC | PRO polypeptide and a method for stimulating the proliferation or | | | |
| CC | differentiation of chondrocyte cells by contacting the cells with a PRO | | | |
| CC | polypeptide. The polypeptides and polynucleotides are useful for | | | |
| CC | detecting the presence of a tumour, such as an adrenal, lung, colon, | | | |
| CC | breast, prostate, rectal, cervical or liver tumour, and for treating such | | | |
| CC | tumours. The polynucleotides are useful as hybridisation probes, in | | | |
| CC | chromosome and gene mapping and in generating antisense RNA or DNA. The | | | |
| CC | polypeptides are useful as pharmaceutical, diagnostics, biosensors or | | | |
| CC | bioreactors. Both are useful in tissue typing. Sequences ABO01437- | | | |
| CC | ABO01741 represent human PRO polypeptides of the invention. Note: The | | | |
| CC | sequence data for this patent is also available in electronic format from | | | |

PR 01-APR-1998; 98US-00803327P.
PR 01-APR-1998; 98US-0080333P.
PR 08-APR-1998; 98US-0081049P.
PR 08-APR-1998; 98US-0081070P.
PR 09-APR-1998; 98US-0081195P.
PR 15-APR-1998; 98US-0081838P.
PR 21-APR-1998; 98US-0082568P.
PR 21-APR-1998; 98US-0082569P.
PR 22-APR-1998; 98US-0082704P.
PR 22-APR-1998; 98US-0082797P.
PR 28-APR-1998; 98US-0083322P.
PR 28-APR-1998; 98US-0083495P.
PR 29-APR-1998; 98US-0083496P.
PR 29-APR-1998; 98US-0083499P.
PR 23-APR-1998; 98US-0083599P.
PR 05-MAY-1998; 98US-0084366P.
PR 06-MAY-1998; 98US-0084414P.
PR 07-MAY-1998; 98US-0084639P.
PR 07-MAY-1998; 98US-0084640P.
PR 07-MAY-1998; 98US-0084643P.
PR 15-MAY-1998; 98US-0085579P.
PR 15-MAY-1998; 98US-0085580P.
PR 15-MAY-1998; 98US-0085582P.
PR 15-MAY-1998; 98US-0085700P.
PR 18-MAY-1998; 98US-0086023P.
PR 22-MAY-1998; 98US-0086392P.
PR 22-MAY-1998; 98US-0086486P.
PR 28-MAY-1998; 98US-0087098P.
PR 28-MAY-1998; 98US-0087208P.
PR 02-JUN-1998; 98US-0087609P.
PR 02-JUN-1998; 98US-0087759P.
PR 03-JUN-1998; 98US-0087827P.
PR 04-JUN-1998; 98US-0088025P.
PR 04-JUN-1998; 98US-0088028P.
PR 04-JUN-1998; 98US-0088029P.
PR 04-JUN-1998; 98US-0088033P.
PR 04-JUN-1998; 98US-0088326P.
PR 05-JUN-1998; 98US-0088167P.
PR 05-JUN-1998; 98US-0088202P.
PR 05-JUN-1998; 98US-0088212P.
PR 05-JUN-1998; 98US-0088217P.
PR 09-JUN-1998; 98US-0088655P.
PR 10-JUN-1998; 98US-0088722P.
PR 10-JUN-1998; 98US-0088738P.
PR 10-JUN-1998; 98US-0088740P.
PR 10-JUN-1998; 98US-0088811P.
PR 10-JUN-1998; 98US-0088824P.
PR 10-JUN-1998; 98US-0088825P.
PR 10-JUN-1998; 98US-0088826P.
PR 11-JUN-1998; 98US-0088861P.
PR 11-JUN-1998; 98US-0088863P.
PR 11-JUN-1998; 98US-0088876P.
PR 12-JUN-1998; 98US-0089090P.
PR 12-JUN-1998; 98US-0089105P.
PR 16-JUN-1998; 98US-0089512P.
PR 16-JUN-1998; 98US-0089514P.
PR 17-JUN-1998; 98US-0089538P.
PR 17-JUN-1998; 98US-0089598P.
PR 17-JUN-1998; 98US-0089653P.
PR 18-JUN-1998; 98US-0089908P.
PR 13-JUN-1998; 98US-0089922P.
PR 22-JUN-1998; 98US-0090246P.
PR 22-JUN-1998; 98US-0090252P.
PR 22-JUN-1998; 98US-0090254P.
PR 24-JUN-1998; 98US-0090429P.
PR 24-JUN-1998; 98US-0090435P.
PR 24-JUN-1998; 98US-0090444P.
PR 24-JUN-1998; 98US-0090461P.
PR 24-JUN-1998; 98US-0090535P.
PR 24-JUN-1998; 98US-0090540P.
PR 25-JUN-1998; 98US-0090676P.
PR 25-JUN-1998; 98US-0090678P.
PR 25-JUN-1998; 98US-0090688P.
PR 25-JUN-1998; 98US-0090689P.
PR 25-JUN-1998; 98US-0090694P.
PR 25-JUN-1998; 98US-0090696P.
PR 25-JUN-1998; 98US-0090697P.
PR 25-JUN-1998; 98US-0090862P.
PR 25-JUN-1998; 98US-0090863P.
PR 25-JUN-1998; 98US-0091010P.
PR 01-JUL-1998; 98US-0091135P.
PR 01-JUL-1998; 98US-0091544P.
PR 02-JUL-1998; 98US-0091478P.
PR 02-JUL-1998; 98US-0091486P.
PR 02-JUL-1998; 98US-0091626P.
PR 02-JUL-1998; 98US-0091628P.
PR 02-JUL-1998; 98US-0091632P.
PR 24-JUL-1998; 98US-0094006P.
PR 04-AUG-1998; 98US-0095282P.
PR 10-AUG-1998; 98US-0095988P.
PR 10-AUG-1998; 98US-0096012P.
PR 17-AUG-1998; 98US-0096757P.
PR 17-AUG-1998; 98US-0096766P.
PR 17-AUG-1998; 98US-0096867P.
PR 17-AUG-1998; 98US-0096891P.
PR 17-AUG-1998; 98US-0096897P.
PR 18-AUG-1998; 98US-0096949P.
PR 18-AUG-1998; 98US-0096959P.
PR 18-AUG-1998; 98US-0097022P.
PR 18-AUG-1998; 98US-0097025P.
PR 26-AUG-1998; 98US-0097952P.
PR 26-AUG-1998; 98US-0097954P.
PR 26-AUG-1998; 98US-0097955P.
PR 26-AUG-1998; 98US-0097971P.
PR 26-AUG-1998; 98US-0097974P.
PR 26-AUG-1998; 98US-0098014P.
PR 01-SEP-1998; 98US-0098716P.
PR 01-SEP-1998; 98US-0098723P.
PR 02-SEP-1998; 98US-0098803P.
PR 02-SEP-1998; 98US-0098821P.
PR 02-SEP-1998; 98US-0098843P.
PR 09-SEP-1998; 98US-0099602P.
PR 10-SEP-1998; 98US-0099741P.
PR 10-SEP-1998; 98US-0099754P.
PR 10-SEP-1998; 98US-0099763P.
PR 10-SEP-1998; 98US-0099812P.
PR 15-SEP-1998; 98US-0100388P.
PR 16-SEP-1998; 98US-0100662P.
PR 16-SEP-1998; 98US-0100664P.
PR 16-SEP-1998; 98US-0101751P.
PR 16-SEP-1998; 98US-0101930P.
PR 17-SEP-1998; 98US-0100683P.
PR 17-SEP-1998; 98US-0100684P.
PR 17-SEP-1998; 98US-0100919P.
PR 17-SEP-1998; 98US-0100930P.
PR 18-SEP-1998; 98US-0100849P.
PR 18-SEP-1998; 98US-0101014P.
PR 18-SEP-1998; 98US-0101068P.
PR 23-SEP-1998; 98US-0101471P.
PR 23-SEP-1998; 98US-0101472P.
PR 23-SEP-1998; 98US-0101475P.
PR 23-SEP-1998; 98US-0101477P.
PR 24-SEP-1998; 98US-0101738P.
PR 24-SEP-1998; 98US-0101739P.
PR 24-SEP-1998; 98US-0101743P.
PR 24-SEP-1998; 98US-0101922P.
PR 25-SEP-1998; 98US-0101786P.
PR 29-SEP-1998; 98US-0102207P.
PR 29-SEP-1998; 98US-0102240P.
PR 29-SEP-1998; 98US-0102330P.
PR 29-SEP-1998; 98US-0102331P.
PR 30-SEP-1998; 98US-0102487P.
PR 30-SEP-1998; 98US-0102570P.
PR 30-SEP-1998; 98US-0102571P.
PR 01-OCT-1998; 98US-0102684P.
PR 01-OCT-1998; 98US-0102687P.


```
PR 24-JUN-1998; 98US-0090535P.
PR 24-JUN-1998; 98US-0090540P.
PR 25-JUN-1998; 98US-0090676P.
PR 25-JUN-1998; 98US-0090678P.
PR 25-JUN-1998; 98US-0090688P.
PR 25-JUN-1998; 98US-0090690P.
PR 25-JUN-1998; 98US-0090694P.
PR 25-JUN-1998; 98US-0090695P.
PR 25-JUN-1998; 98US-0090696P.
PR 26-JUN-1998; 98US-0090862P.
PR 26-JUN-1998; 98US-0090863P.
PR 26-JUN-1998; 98US-0091010P.
PR 01-JUL-1998; 98US-0091359P.
PR 01-JUL-1998; 98US-0091544P.
PR 02-JUL-1998; 98US-0091478P.
PR 02-JUL-1998; 98US-0091486P.
PR 02-JUL-1998; 98US-0091626P.
PR 02-JUL-1998; 98US-0091628P.
PR 02-JUL-1998; 98US-0091632P.
PR 04-JUL-1998; 98US-0094006P.
PR 04-AUG-1998; 98US-0095282P.
PR 10-AUG-1998; 98US-0095998P.
PR 10-AUG-1998; 98US-0096012P.
PR 17-AUG-1998; 98US-0096757P.
PR 17-AUG-1998; 98US-0096766P.
PR 17-AUG-1998; 98US-0096867P.
PR 17-AUG-1998; 98US-0096891P.
PR 17-AUG-1998; 98US-0096897P.
PR 18-AUG-1998; 98US-0096949P.
PR 18-AUG-1998; 98US-0096959P.
PR 18-AUG-1998; 98US-0097022P.
PR 26-AUG-1998; 98US-0097952P.
PR 26-AUG-1998; 98US-0097954P.
PR 26-AUG-1998; 98US-0097955P.
PR 26-AUG-1998; 98US-0097971P.
PR 26-AUG-1998; 98US-0097974P.
PR 26-AUG-1998; 98US-0098014P.
PR 01-SEP-1998; 98US-0098716P.
PR 01-SEP-1998; 98US-0098723P.
PR 02-SEP-1998; 98US-0098803P.
PR 02-SEP-1998; 98US-0098821P.
PR 02-SEP-1998; 98US-0098843P.
PR 09-SEP-1998; 98US-0099602P.
PR 10-SEP-1998; 98US-0099741P.
PR 10-SEP-1998; 98US-0099754P.
PR 10-SEP-1998; 98US-0099763P.
PR 10-SEP-1998; 98US-0099812P.
PR 15-SEP-1998; 98US-0100388P.
PR 16-SEP-1998; 98US-0100662P.
PR 16-SEP-1998; 98US-0100664P.
PR 16-SEP-1998; 98US-0101751P.
PR 16-SEP-1998; 98MO-US019330.
PR 17-SEP-1998; 98US-0100683P.
PR 17-SEP-1998; 98US-0100684P.
PR 17-SEP-1998; 98US-0100919P.
PR 17-SEP-1998; 98US-0100930P.
PR 18-SEP-1998; 98US-0100849P.
PR 18-SEP-1998; 98US-0101014P.
PR 18-SEP-1998; 98US-0101068P.
PR 23-SEP-1998; 98US-0101471P.
PR 23-SEP-1998; 98US-0101472P.
PR 23-SEP-1998; 98US-0101475P.
PR 24-SEP-1998; 98US-0101738P.
PR 24-SEP-1998; 98US-0101739P.
PR 24-SEP-1998; 98US-0101743P.
PR 24-SEP-1998; 98US-0101922P.
PR 25-SEP-1998; 98US-0101786P.
PR 29-SEP-1998; 98US-0102207P.
PR 29-SEP-1998; 98US-0102240P.
PR 29-SEP-1998; 98US-0102330P.
PR 29-SEP-1998; 98US-0102331P.

PR 30-SEP-1998; 98US-0102487P.
PR 30-SEP-1998; 98US-0102570P.
PR 30-SEP-1998; 98US-0102571P.
PR 01-OCT-1998; 98US-0102684P.
PR 01-OCT-1998; 98US-0102687P.

Query Match 35.5%; Score 150; DB 6; Length 440;
Best Local Similarity 100.0%; Pred. No. 7.7e-135;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 16 SAAALPTGQNLFTKDVTVIEGEVATISQVKNKSDSVIQLLNPNRQTIYPRDFRPLK 75
Db 32 SAAALPTGQNLFTKDVTVIEGEVATISQVKNKSDSVIQLLNPNRQTIYPRDFRPLK 91
Qy 76 DSRFQLNLFSSSELKVSLSLTNVSISDEGRYFCQLYTDPPQESYTTITVLVPPRNLMIDIQ 135
Db 92 DSRFQLNLFSSSELKVSLSLTNVSISDEGRYFCQLYTDPPQESYTTITVLVPPRNLMIDIQ 151
Qy 136 DTAVEGEEIEVNCNTAMASKPATTIRWFKGN 165
Db 152 DTAVEGEEIEVNCNTAMASKPATTIRWFKGN 181
```

Search completed: June 28, 2005, 10:16:48
Job time : 118.43 secs

THIS PAGE BLANK (USPTO)

GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.
OM protein - protein search, using sw model
Run on: June 28, 2005, 10:20:39 ; Search time 102.694 Seconds
(without alignments)
1583.971 Million cell updates/sec

Title: US-10-622-237-4
Perfect score: 423
Sequence: 1 AAPPGLRLRLLLLLLSAAL.....TAINAEGGQNNSEKEYF 423

Scoring table:
OLIGO
Gapop 60.0 , Gapext 60.0
Searched: 1717557 seqs, 384547976 residues

Word size : 0
Total number of hits satisfying chosen parameters: 1717557

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Listing first 150 summaries

Database : Published Applications AA:*

- 1: /cgn2_6/ptodata/2/pubpaa/US07_PUBCOMB.pep.*
- 2: /cgn2_6/ptodata/2/pubpaa/PCT_NEW_PUB.pep.*
- 3: /cgn2_6/ptodata/2/pubpaa/US06_NEW_PUB.pep.*
- 4: /cgn2_6/ptodata/2/pubpaa/US06_PUBCOMB.pep.*
- 5: /cgn2_6/ptodata/2/pubpaa/US07_NEW_PUB.pep.*
- 6: /cgn2_6/ptodata/2/pubpaa/PCTUS_PUBCOMB.pep.*
- 7: /cgn2_6/ptodata/2/pubpaa/US08_NEW_PUB.pep.*
- 8: /cgn2_6/ptodata/2/pubpaa/US08_PUBCOMB.pep.*
- 9: /cgn2_6/ptodata/2/pubpaa/US09A_PUBCOMB.pep.*
- 10: /cgn2_6/ptodata/2/pubpaa/US09B_PUBCOMB.pep.*
- 11: /cgn2_6/ptodata/2/pubpaa/US09C_PUBCOMB.pep.*
- 12: /cgn2_6/ptodata/2/pubpaa/US09A_PUBCOMB.pep.*
- 13: /cgn2_6/ptodata/2/pubpaa/US10A_PUBCOMB.pep.*
- 14: /cgn2_6/ptodata/2/pubpaa/US10B_PUBCOMB.pep.*
- 15: /cgn2_6/ptodata/2/pubpaa/US10C_PUBCOMB.pep.*
- 16: /cgn2_6/ptodata/2/pubpaa/US10D_PUBCOMB.pep.*
- 17: /cgn2_6/ptodata/2/pubpaa/US10E_PUBCOMB.pep.*
- 18: /cgn2_6/ptodata/2/pubpaa/US10F_PUBCOMB.pep.*
- 19: /cgn2_6/ptodata/2/pubpaa/US11A_PUBCOMB.pep.*
- 20: /cgn2_6/ptodata/2/pubpaa/US11_NEW_PUB.pep.*
- 21: /cgn2_6/ptodata/2/pubpaa/US60_NEW_PUB.pep.*
- 22: /cgn2_6/ptodata/2/pubpaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | ID | Description |
|------------|-------|-------------|--------|----|--------------------|
| 1 | 423 | 100.0 | 423 | 9 | US-09-778-510-22 |
| 2 | 423 | 100.0 | 423 | 9 | US-09-778-187B-4 |
| 3 | 423 | 100.0 | 423 | 14 | US-10-302-041-22 |
| 4 | 423 | 100.0 | 423 | 16 | US-10-622-237-4 |
| 5 | 423 | 100.0 | 423 | 17 | US-10-898-408-4 |
| 6 | 423 | 100.0 | 445 | 15 | US-10-015-115-112 |
| 7 | 342 | 80.9 | 494 | 15 | US-10-015-115-113 |
| 8 | 264 | 62.4 | 393 | 16 | US-10-417-375-145 |
| 9 | 150 | 35.5 | 364 | 10 | US-09-984-130-39 |
| 10 | 150 | 35.5 | 364 | 10 | US-09-836-353A-39 |
| 11 | 150 | 35.5 | 414 | 16 | US-10-821-273-62 |
| | | | | | Sequence 22, Appl |
| | | | | | Sequence 4, Appl |
| | | | | | Sequence 22, Appl |
| | | | | | Sequence 4, Appl |
| | | | | | Sequence 112, Appl |
| | | | | | Sequence 113, Appl |
| | | | | | Sequence 145, Appl |
| | | | | | Sequence 39, Appl |
| | | | | | Sequence 62, Appl |

| | | | | | | |
|----|-----|------|-----|----|-------------------|--------------------|
| 12 | 150 | 35.5 | 421 | 16 | US-10-417-375-148 | Sequence 148, Appl |
| 13 | 150 | 35.5 | 440 | 9 | US-09-866-028-61 | Sequence 61, Appl |
| 14 | 150 | 35.5 | 440 | 9 | US-09-944-449-61 | Sequence 61, Appl |
| 15 | 150 | 35.5 | 440 | 9 | US-09-944-457-61 | Sequence 61, Appl |
| 16 | 150 | 35.5 | 440 | 9 | US-09-944-862-61 | Sequence 61, Appl |
| 17 | 150 | 35.5 | 440 | 9 | US-09-945-587-61 | Sequence 61, Appl |
| 18 | 150 | 35.5 | 440 | 9 | US-09-945-015-61 | Sequence 61, Appl |
| 19 | 150 | 35.5 | 440 | 9 | US-09-944-396-61 | Sequence 61, Appl |
| 20 | 150 | 35.5 | 440 | 9 | US-09-944-432-61 | Sequence 61, Appl |
| 21 | 150 | 35.5 | 440 | 9 | US-09-943-762-61 | Sequence 61, Appl |
| 22 | 150 | 35.5 | 440 | 9 | US-09-944-654-61 | Sequence 61, Appl |
| 23 | 150 | 35.5 | 440 | 9 | US-09-943-851A-61 | Sequence 61, Appl |
| 24 | 150 | 35.5 | 440 | 9 | US-09-944-413-61 | Sequence 61, Appl |
| 25 | 150 | 35.5 | 440 | 9 | US-09-944-403-61 | Sequence 61, Appl |
| 26 | 150 | 35.5 | 440 | 9 | US-09-944-896-61 | Sequence 61, Appl |
| 27 | 150 | 35.5 | 440 | 9 | US-09-944-924-61 | Sequence 61, Appl |
| 28 | 150 | 35.5 | 440 | 9 | US-09-944-929-61 | Sequence 61, Appl |
| 29 | 150 | 35.5 | 440 | 9 | US-09-944-907-61 | Sequence 61, Appl |
| 30 | 150 | 35.5 | 440 | 10 | US-09-944-884-61 | Sequence 61, Appl |
| 31 | 150 | 35.5 | 440 | 10 | US-09-944-852-61 | Sequence 61, Appl |
| 32 | 150 | 35.5 | 440 | 10 | US-09-943-780-61 | Sequence 61, Appl |
| 33 | 150 | 35.5 | 440 | 10 | US-09-945-584-61 | Sequence 61, Appl |
| 34 | 150 | 35.5 | 440 | 11 | US-09-943-664-61 | Sequence 61, Appl |
| 35 | 150 | 35.5 | 440 | 13 | US-10-052-586-34 | Sequence 34, Appl |
| 36 | 150 | 35.5 | 440 | 14 | US-10-174-590-34 | Sequence 34, Appl |
| 37 | 150 | 35.5 | 440 | 14 | US-10-176-758-34 | Sequence 34, Appl |
| 38 | 150 | 35.5 | 440 | 14 | US-10-175-737-34 | Sequence 34, Appl |
| 39 | 150 | 35.5 | 440 | 14 | US-10-174-581-34 | Sequence 34, Appl |
| 40 | 150 | 35.5 | 440 | 14 | US-10-176-483-34 | Sequence 34, Appl |
| 41 | 150 | 35.5 | 440 | 14 | US-10-176-749-34 | Sequence 34, Appl |
| 42 | 150 | 35.5 | 440 | 14 | US-10-176-914-34 | Sequence 34, Appl |
| 43 | 150 | 35.5 | 440 | 14 | US-10-176-915-34 | Sequence 34, Appl |
| 44 | 150 | 35.5 | 440 | 14 | US-10-173-706-34 | Sequence 34, Appl |
| 45 | 150 | 35.5 | 440 | 14 | US-10-175-738-34 | Sequence 34, Appl |
| 46 | 150 | 35.5 | 440 | 14 | US-10-175-752-34 | Sequence 34, Appl |
| 47 | 150 | 35.5 | 440 | 14 | US-10-176-482-34 | Sequence 34, Appl |
| 48 | 150 | 35.5 | 440 | 14 | US-10-176-757-34 | Sequence 34, Appl |
| 49 | 150 | 35.5 | 440 | 14 | US-10-176-913-34 | Sequence 34, Appl |
| 50 | 150 | 35.5 | 440 | 14 | US-10-180-552-34 | Sequence 34, Appl |
| 51 | 150 | 35.5 | 440 | 14 | US-10-180-557-34 | Sequence 34, Appl |
| 52 | 150 | 35.5 | 440 | 14 | US-10-173-700-34 | Sequence 34, Appl |
| 53 | 150 | 35.5 | 440 | 14 | US-10-174-572-34 | Sequence 34, Appl |
| 54 | 150 | 35.5 | 440 | 14 | US-10-174-579-34 | Sequence 34, Appl |
| 55 | 150 | 35.5 | 440 | 14 | US-10-174-582-34 | Sequence 34, Appl |
| 56 | 150 | 35.5 | 440 | 14 | US-10-174-588-34 | Sequence 34, Appl |
| 57 | 150 | 35.5 | 440 | 14 | US-10-175-739-34 | Sequence 34, Appl |
| 58 | 150 | 35.5 | 440 | 14 | US-10-175-740-34 | Sequence 34, Appl |
| 59 | 150 | 35.5 | 440 | 14 | US-10-175-743-34 | Sequence 34, Appl |
| 60 | 150 | 35.5 | 440 | 14 | US-10-176-488-34 | Sequence 34, Appl |
| 61 | 150 | 35.5 | 440 | 14 | US-10-176-492-34 | Sequence 34, Appl |
| 62 | 150 | 35.5 | 440 | 14 | US-10-176-747-34 | Sequence 34, Appl |
| 63 | 150 | 35.5 | 440 | 14 | US-10-176-750-34 | Sequence 34, Appl |
| 64 | 150 | 35.5 | 440 | 14 | US-10-176-985-34 | Sequence 34, Appl |
| 65 | 150 | 35.5 | 440 | 14 | US-10-176-987-34 | Sequence 34, Appl |
| 66 | 150 | 35.5 | 440 | 14 | US-10-176-992-34 | Sequence 34, Appl |
| 67 | 150 | 35.5 | 440 | 14 | US-10-176-993-34 | Sequence 34, Appl |
| 68 | 150 | 35.5 | 440 | 14 | US-10-184-658-34 | Sequence 34, Appl |
| 69 | 150 | 35.5 | 440 | 14 | US-10-176-991-34 | Sequence 34, Appl |
| 70 | 150 | 35.5 | 440 | 14 | US-10-173-695-34 | Sequence 34, Appl |
| 71 | 150 | 35.5 | 440 | 14 | US-10-173-697-34 | Sequence 34, Appl |
| 72 | 150 | 35.5 | 440 | 14 | US-10-173-705-34 | Sequence 34, Appl |
| 73 | 150 | 35.5 | 440 | 14 | US-10-174-576-34 | Sequence 34, Appl |
| 74 | 150 | 35.5 | 440 | 14 | US-10-174-585-34 | Sequence 34, Appl |
| 75 | 150 | 35.5 | 440 | 14 | US-10-174-586-34 | Sequence 34, Appl |
| 76 | 150 | 35.5 | 440 | 14 | US-10-175-747-34 | Sequence 34, Appl |
| 77 | 150 | 35.5 | 440 | 14 | US-10-176-481-34 | Sequence 34, Appl |
| 78 | 150 | 35.5 | 440 | 14 | US-10-176-485-34 | Sequence 34, Appl |
| 79 | 150 | 35.5 | 440 | 14 | US-10-176-487-34 | Sequence 34, Appl |
| 80 | 150 | 35.5 | 440 | 14 | US-10-176-493-34 | Sequence 34, Appl |
| 81 | 150 | 35.5 | 440 | 14 | US-10-176-756-34 | Sequence 34, Appl |
| 82 | 150 | 35.5 | 440 | 14 | US-10-176-911-34 | Sequence 34, Appl |
| 83 | 150 | 35.5 | 440 | 14 | US-10-176-919-34 | Sequence 34, Appl |
| 84 | 150 | 35.5 | 440 | 14 | US-10-176-925-34 | Sequence 34, Appl |

QY 181 YVTSQLMLKVHKEDDGVPIQVEHPAVTGNLTQRYLEYQVKPQVHIQMTYPLQGLTR 240
Db 181 YVTSQLMLKVHKEDDGVPIQVEHPAVTGNLTQRYLEYQVKPQVHIQMTYPLQGLTR 240
QY 241 EGDAPFELTCEAIGKQPQVVMVTVRVDDMPQHAVLSGPNLFINNKNKTNGTYRCASNI 300
Db 241 EGDAPFELTCEAIGKQPQVVMVTVRVDDMPQHAVLSGPNLFINNKNKTNGTYRCASNI 300
QY 301 VGKASDYMXYVDDPTTTPPTTT 360
Db 301 VGKASDYMXYVDDPTTTPPTTT 360
QY 361 GVVAVVVFAMLCCLLIILGRYFARHKGTFTHEAKGADDAADATAIINAEAGGQNNSEKK 420
Db 361 GVVAVVVFAMLCCLLIILGRYFARHKGTFTHEAKGADDAADATAIINAEAGGQNNSEKK 420
QY 421 EYF 423
Db 421 EYF 423
RESULT 5
US-10-898-408-4
; Sequence 4, Application US/10898408
; Publication No. US20050058642A1
; GENERAL INFORMATION:
; APPLICANT: GALIBERT, Laurent J.
; APPLICANT: YAN, Wei
; TITLE OF INVENTION: ANTAGONISTS AND AGONISTS OF LOCAM AND METHODS OF USE
; FILE REFERENCE: 3467-A
; CURRENT APPLICATION NUMBER: US/10/898,408
; CURRENT FILING DATE: 2004-07-23
; PRIOR APPLICATION NUMBER: 60/490,027
; PRIOR FILING DATE: 2003-07-25
; NUMBER OF SEQ ID NOS: 13
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 4
; LENGTH: 423
; TYPE: PRT
; ORGANISM: mus musculus
US-10-898-408-4

Query Match 100.0%; Score 423; DB 17; Length 423;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 423; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 AAPGRLRLRLLLLSAAALIPFGDQNLFTKDVTVIEGEVATISQVKNKSDSDSVIQLLN 60
Db 1 AAPGRLRLRLLLLSAAALIPFGDQNLFTKDVTVIEGEVATISQVKNKSDSDSVIQLLN 60
QY 61 PNRQTIYFRDPRPKDSRFQNLNFSSELKVSILTNVSIISDEGRYFCQLYTDPPEYSYTTI 120
Db 61 PNRQTIYFRDPRPKDSRFQNLNFSSELKVSILTNVSIISDEGRYFCQLYTDPPEYSYTTI 120
QY 121 TVLVPPRNLMIDIQKDTAVEGEIEVNCCTAMASKPATTTIRWPKGNKELKGKSEVEESDM 180
Db 121 TVLVPPRNLMIDIQKDTAVEGEIEVNCCTAMASKPATTTIRWPKGNKELKGKSEVEESDM 180
QY 181 YVTSQLMLKVHKEDDGVPIQVEHPAVTGNLTQRYLEYQVKPQVHIQMTYPLQGLTR 240
Db 181 YVTSQLMLKVHKEDDGVPIQVEHPAVTGNLTQRYLEYQVKPQVHIQMTYPLQGLTR 240
QY 241 EGDAPFELTCEAIGKQPQVVMVTVRVDDMPQHAVLSGPNLFINNKNKTNGTYRCASNI 300
Db 241 EGDAPFELTCEAIGKQPQVVMVTVRVDDMPQHAVLSGPNLFINNKNKTNGTYRCASNI 300
QY 301 VGKASDYMXYVDDPTTTPPTTT 360
Db 301 VGKASDYMXYVDDPTTTPPTTT 360
QY 361 GVVAVVVFAMLCCLLIILGRYFARHKGTFTHEAKGADDAADATAIINAEAGGQNNSEKK 420
Db 361 GVVAVVVFAMLCCLLIILGRYFARHKGTFTHEAKGADDAADATAIINAEAGGQNNSEKK 420

QY 421 EYF 423
Db 421 EYF 423
RESULT 6
US-10-015-115-112
; Sequence 112, Application US/10015115
; Publication No. US20030207800A1
; GENERAL INFORMATION:
; APPLICANT: Malyankar, Uriel M
; APPLICANT: Shenoy, Suresh G
; APPLICANT: Spytek, Kimberly A
; APPLICANT: Zerhusen, Bryan D
; APPLICANT: Patturajan, Meera
; APPLICANT: Guo, Xiaojia
; APPLICANT: Kekuda, Ramesha
; APPLICANT: Gangolli, Esha A
; APPLICANT: Shinkets, Richard A
; APPLICANT: Taupier, Raymond J
; APPLICANT: Li, Li
; APPLICANT: Padigaru, Muralidhara
; TITLE OF INVENTION: Proteins, Polynucleotides Encoding Them and Methods of
; FILE REFERENCE: 21402-211
; CURRENT APPLICATION NUMBER: US/10/015,115
; CURRENT FILING DATE: 2002-09-23
; PRIOR APPLICATION NUMBER: 60/248,153
; PRIOR FILING DATE: 2000-11-13
; PRIOR APPLICATION NUMBER: 60/249,598
; PRIOR FILING DATE: 2000-11-17
; PRIOR APPLICATION NUMBER: 60/264,240
; PRIOR FILING DATE: 2001-01-26
; PRIOR APPLICATION NUMBER: 60/266,127
; PRIOR FILING DATE: 2001-02-02
; PRIOR APPLICATION NUMBER: 60/269,562
; PRIOR FILING DATE: 2001-02-16
; PRIOR APPLICATION NUMBER: 60/304,348
; PRIOR FILING DATE: 2001-07-10
; PRIOR APPLICATION NUMBER: 60/309,261
; PRIOR FILING DATE: 2001-07-31
; PRIOR APPLICATION NUMBER: 60/313,283
; PRIOR FILING DATE: 2001-08-17
; NUMBER OF SEQ ID NOS: 205
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 112
; LENGTH: 445
; TYPE: PRT
; ORGANISM: Mus musculus
US-10-015-115-112

Query Match 100.0%; Score 423; DB 15; Length 445;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 423; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 AAPGRLRLRLLLLSAAALIPFGDQNLFTKDVTVIEGEVATISQVKNKSDSDSVIQLLN 60
Db 22 AAPGRLRLRLLLLSAAALIPFGDQNLFTKDVTVIEGEVATISQVKNKSDSDSVIQLLN 81
QY 61 PNRQTIYFRDPRPKDSRFQNLNFSSELKVSILTNVSIISDEGRYFCQLYTDPPEYSYTTI 120
Db 82 PNRQTIYFRDPRPKDSRFQNLNFSSELKVSILTNVSIISDEGRYFCQLYTDPPEYSYTTI 141
QY 121 TVLVPPRNLMIDIQKDTAVEGEIEVNCCTAMASKPATTTIRWPKGNKELKGKSEVEESDM 180
Db 142 TVLVPPRNLMIDIQKDTAVEGEIEVNCCTAMASKPATTTIRWPKGNKELKGKSEVEESDM 201
QY 181 YVTSQLMLKVHKEDDGVPIQVEHPAVTGNLTQRYLEYQVKPQVHIQMTYPLQGLTR 240
Db 202 YVTSQLMLKVHKEDDGVPIQVEHPAVTGNLTQRYLEYQVKPQVHIQMTYPLQGLTR 261
QY 241 EGDAPFELTCEAIGKQPQVVMVTVRVDDMPQHAVLSGPNLFINNKNKTNGTYRCASNI 300

; NUMBER OF SEQ ID NOS: 176
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 148
; LENGTH: 421
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-417-375-148

Query Match 35.5%; Score 150; DB 16; Length 421;
Best Local Similarity 100.0%; Pred. No. 1.1e-125;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 16 SAALIPGTGQNLFTKDVTVIEGEVATISQVKNKSDSVIQLNPNRQTIYFRDPLK 75
Db 34 SAALIPGTGQNLFTKDVTVIEGEVATISQVKNKSDSVIQLNPNRQTIYFRDPLK 93

Qy 76 DSRFQLNFSSELKSLVSLTNVSIISDEGRYFCQLYTDPQESYTTITVLVPPRNLMIDIQK 135
Db 94 DSRFQLNFSSELKSLVSLTNVSIISDEGRYFCQLYTDPQESYTTITVLVPPRNLMIDIQK 153

Qy 136 DTAVEGEIEVNCNTAMASKPATTTIRWPKGN 165
Db 154 DTAVEGEIEVNCNTAMASKPATTTIRWPKGN 183

RESULT 13

US-09-866-028-61
; Sequence 61, Application US/09866028
; Patent No. US20020058309A1
; GENERAL INFORMATION:

; APPLICANT: Baker, Kevin
; APPLICANT: Botstein, David
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gerritsen, Mary
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul
; APPLICANT: Grimaldi, Christopher
; APPLICANT: Gurney, Austin
; APPLICANT: Hillan, Kenneth
; APPLICANT: Kijavin, Ivar
; APPLICANT: Napier, Mary
; APPLICANT: Roy, Margaret
; APPLICANT: Tumas, Daniel
; APPLICANT: Wood, William

; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P2548P1C1

; CURRENT APPLICATION NUMBER: US/09/866,028
; CURRENT FILING DATE: 2001-05-25

; Prior application data removed - consult PALM or file wrapper
; NUMBER OF SEQ ID NOS: 120

; SEQ ID NO 61

; LENGTH: 440

; TYPE: PRT

; ORGANISM: Homo Sapien

US-09-866-028-61

Query Match 35.5%; Score 150; DB 9; Length 440;
Best Local Similarity 100.0%; Pred. No. 1.1e-125;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 16 SAALIPGTGQNLFTKDVTVIEGEVATISQVKNKSDSVIQLNPNRQTIYFRDPLK 75
Db 32 SAALIPGTGQNLFTKDVTVIEGEVATISQVKNKSDSVIQLNPNRQTIYFRDPLK 91

Qy 76 DSRFQLNFSSELKSLVSLTNVSIISDEGRYFCQLYTDPQESYTTITVLVPPRNLMIDIQK 135
Db 92 DSRFQLNFSSELKSLVSLTNVSIISDEGRYFCQLYTDPQESYTTITVLVPPRNLMIDIQK 151

Qy 136 DTAVEGEIEVNCNTAMASKPATTTIRWPKGN 165
Db 154 DTAVEGEIEVNCNTAMASKPATTTIRWPKGN 183

Db 152 DTAVEGEIEVNCNTAMASKPATTTIRWPKGN 181

RESULT 14

US-09-944-449-61

; Sequence 61, Application US/09944449

; Patent No. US20020102647A1

; GENERAL INFORMATION:

; APPLICANT: Baker, Kevin
; APPLICANT: Botstein, David
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gerritsen, Mary
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul
; APPLICANT: Grimaldi, Christopher
; APPLICANT: Gurney, Austin
; APPLICANT: Hillan, Kenneth
; APPLICANT: Kijavin, Ivar
; APPLICANT: Napier, Mary
; APPLICANT: Roy, Margaret
; APPLICANT: Tumas, Daniel
; APPLICANT: Wood, William

; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P2548P1C1

; CURRENT APPLICATION NUMBER: US/09/944,449
; CURRENT FILING DATE: 2001-09-26

; Prior application data removed - consult PALM or file wrapper

; NUMBER OF SEQ ID NOS: 120

; SEQ ID NO 61

; LENGTH: 440

; TYPE: PRT

; ORGANISM: Homo Sapien

US-09-944-449-61


```
Best Local Similarity 100.0%; Pred. No. 1.le-125;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 16 SAAALPTGQNLFTKDVTVIEGEVATISQVKNKSDSVIQLNPNRQTIYFRDRPLK 75
Db 32 SAAALPTGQNLFTKDVTVIEGEVATISQVKNKSDSVIQLNPNRQTIYFRDRPLK 91

QY 76 DSRFQLNFFSSSELKVLNVSISDEGRYFCQLYTDPPQESYTTITVLVPPRNLMDIOK 135
Db 92 DSRFQLNFFSSSELKVLNVSISDEGRYFCQLYTDPPQESYTTITVLVPPRNLMDIOK 151

QY 136 DTAVEGEIEVNCMTAMASKPATIRWFKGN 165
Db 152 DTAVEGEIEVNCMTAMASKPATIRWFKGN 181

RESULT 17
US-09-945-587-61
; Sequence 61, Application US/09945587
; Patent No. US20020127643A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin
; APPLICANT: Botstein, David
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gerritsen, Mary
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul
; APPLICANT: Grimaldi, Christopher
; APPLICANT: Gurney, Austin
; APPLICANT: Hillan, Kenneth
; APPLICANT: Kljavin, Ivar
; APPLICANT: Napier, Mary
; APPLICANT: Roy, Margaret
; APPLICANT: Tumas, Daniel
; APPLICANT: Wood, William
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P2548P1C1
; CURRENT APPLICATION NUMBER: US/09/945,587
; PRIOR FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: 09/866,028
; PRIOR FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: 60/067,411
; PRIOR FILING DATE: December 3, 1997
; PRIOR APPLICATION NUMBER: 60/069,334
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,335
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,278
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,425
; PRIOR FILING DATE: December 12, 1997
; PRIOR APPLICATION NUMBER: 60/069,696
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,694
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,702
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,870
; PRIOR FILING DATE: December 17, 1997
; PRIOR APPLICATION NUMBER: 60/069,873
; PRIOR FILING DATE: December 17, 1997
; PRIOR APPLICATION NUMBER: 60/069,017
; PRIOR FILING DATE: December 18, 1997
; PRIOR APPLICATION NUMBER: 60/070,440
; PRIOR FILING DATE: January 5, 1998
; PRIOR APPLICATION NUMBER: 60/074,086
; PRIOR FILING DATE: February 9, 1998
; PRIOR APPLICATION NUMBER: 60/074,092
; PRIOR FILING DATE: February 9, 1998
; PRIOR APPLICATION NUMBER: 60/075,945
```

```
; PRIOR FILING DATE: February 25, 1998
; PRIOR APPLICATION NUMBER: 60/112,850
; PRIOR FILING DATE: December 16, 1998
; PRIOR APPLICATION NUMBER: 60/113,296
; PRIOR FILING DATE: December 22, 1998
; PRIOR APPLICATION NUMBER: 60/146,222
; PRIOR FILING DATE: July 28, 1999
; PRIOR APPLICATION NUMBER: PCT/US98/19330
; PRIOR FILING DATE: September 16, 1998
; PRIOR APPLICATION NUMBER: PCT/US98/25108
; PRIOR FILING DATE: December 1, 1998
; PRIOR APPLICATION NUMBER: 09/216,021
; PRIOR FILING DATE: December 16, 1998
; PRIOR APPLICATION NUMBER: 09/218,517
; PRIOR FILING DATE: December 22, 1998
; PRIOR APPLICATION NUMBER: 09/254,311
; PRIOR FILING DATE: March 3, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/12252
; PRIOR FILING DATE: June 22, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: September 15, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28409
; PRIOR FILING DATE: No. US20020127643A1ember 30, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: No. US20020127643A1ember 30, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28301
; PRIOR FILING DATE: December 1, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: December 16, 1999
; PRIOR APPLICATION NUMBER: PCT/US00/03565
; PRIOR FILING DATE: February 11, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: February 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/05841
; PRIOR FILING DATE: March 2, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/08439
; PRIOR FILING DATE: March 30, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/14042
; PRIOR FILING DATE: May 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/20710
; PRIOR FILING DATE: July 28, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/32678
; PRIOR FILING DATE: December 1, 2000
; PRIOR APPLICATION NUMBER: PCT/US01/06520
; NUMBER OF SEQ ID NOS: 120
; SEQ ID NO 61
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-945-587-61

Query Match 35.5%; Score 150; DB 9; Length 440;
Best Local Similarity 100.0%; Pred. No. 1.le-125;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 16 SAAALPTGQNLFTKDVTVIEGEVATISQVKNKSDSVIQLNPNRQTIYFRDRPLK 75
Db 32 SAAALPTGQNLFTKDVTVIEGEVATISQVKNKSDSVIQLNPNRQTIYFRDRPLK 91

QY 76 DSRFQLNFFSSSELKVLNVSISDEGRYFCQLYTDPPQESYTTITVLVPPRNLMDIOK 135
Db 92 DSRFQLNFFSSSELKVLNVSISDEGRYFCQLYTDPPQESYTTITVLVPPRNLMDIOK 151

QY 136 DTAVEGEIEVNCMTAMASKPATIRWFKGN 165
Db 152 DTAVEGEIEVNCMTAMASKPATIRWFKGN 181

RESULT 18
US-09-945-015-61
; Sequence 61, Application US/09945015
; Patent No. US20020132768A1
```

GENERAL INFORMATION:
; APPLICANT: Baker, Kevin
; APPLICANT: Botstein, David
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gerritsen, Mary
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul
; APPLICANT: Grimaldi, Christopher
; APPLICANT: Gurney, Austin
; APPLICANT: Hillan, Kenneth
; APPLICANT: Kljavin, Ivar
; APPLICANT: Napier, Mary
; APPLICANT: Roy, Margaret
; APPLICANT: Tumas, Daniel
; APPLICANT: Wood, William
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P2548P1C1
; CURRENT APPLICATION NUMBER: US/09/945,015
; CURRENT FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: 09/866,028
; PRIOR FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: 60/067,411
; PRIOR FILING DATE: December 3, 1997
; PRIOR APPLICATION NUMBER: 60/069,334
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,335
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,278
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,425
; PRIOR FILING DATE: December 12, 1997
; PRIOR APPLICATION NUMBER: 60/069,696
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,694
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,702
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,870
; PRIOR FILING DATE: December 17, 1997
; PRIOR APPLICATION NUMBER: 60/069,873
; PRIOR FILING DATE: December 17, 1997
; PRIOR APPLICATION NUMBER: 60/068,017
; PRIOR FILING DATE: December 18, 1997
; PRIOR APPLICATION NUMBER: 60/070,440
; PRIOR FILING DATE: January 5, 1998
; PRIOR APPLICATION NUMBER: 60/074,086
; PRIOR FILING DATE: February 9, 1998
; PRIOR APPLICATION NUMBER: 60/074,092
; PRIOR FILING DATE: February 9, 1998
; PRIOR APPLICATION NUMBER: 60/075,945
; PRIOR FILING DATE: February 25, 1998
; PRIOR APPLICATION NUMBER: 60/112,850
; PRIOR FILING DATE: December 16, 1998
; PRIOR APPLICATION NUMBER: 60/113,296
; PRIOR FILING DATE: December 22, 1998
; PRIOR APPLICATION NUMBER: 60/146,222
; PRIOR FILING DATE: July 28, 1999
; PRIOR APPLICATION NUMBER: PCT/US98/19330
; PRIOR FILING DATE: September 16, 1998
; PRIOR APPLICATION NUMBER: PCT/US98/25108
; PRIOR FILING DATE: December 1, 1998
; PRIOR APPLICATION NUMBER: 09/216,021
; PRIOR FILING DATE: December 16, 1998
; PRIOR APPLICATION NUMBER: 09/218,517
; PRIOR FILING DATE: December 22, 1998
; PRIOR APPLICATION NUMBER: 09/254,311
; PRIOR FILING DATE: March 3, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/12252
; PRIOR FILING DATE: June 22, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/21090

; PRIOR FILING DATE: September 15, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28409
; PRIOR FILING DATE: NO. US20020132768A1e1ember 30, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: NO. US20020132768A1e1ember 30, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28301
; PRIOR FILING DATE: December 1, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: December 16, 1999
; PRIOR APPLICATION NUMBER: PCT/US00/03565
; PRIOR FILING DATE: February 11, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: February 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/05841
; PRIOR FILING DATE: March 2, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/08439
; PRIOR FILING DATE: March 30, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/14042
; PRIOR FILING DATE: May 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/20710
; PRIOR FILING DATE: July 28, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/32678
; PRIOR FILING DATE: December 1, 2000
; PRIOR APPLICATION NUMBER: PCT/US01/06520
; PRIOR FILING DATE: February 28, 2001
; NUMBER OF SEQ ID NOS: 120
; SEQ ID NO 61
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-945-015-61
Query Match 35.5%; Score 150; DB 9; Length 440;
Best Local Similarity 100.0%; Pred. No. 1.1e-125;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 16 SAALPTGDGNLFTKQNTVIEGEVATISCVNKSDDSVIQLNPNRQTIYFRDPLK 75
DB 32 SAALPTGDGNLFTKQNTVIEGEVATISCVNKSDDSVIQLNPNRQTIYFRDPLK 91
QY 76 DSRFQLNFSSELKVLNVTNVSISDEGRYFCQLYTTPPQESYTTITVLVPPNLMIDIQK 135
DB 92 DSRFQLNFSSELKVLNVTNVSISDEGRYFCQLYTTPPQESYTTITVLVPPNLMIDIQK 151
QY 136 DTAVEGEEIEVNCNTAMASKPATTIRWFKGN 165
DB 152 DTAVEGEEIEVNCNTAMASKPATTIRWFKGN 181
RESULT 19
US-09-944-396-61
; Sequence 61, Application US/09944396
; Patent No. US20020132981A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin
; APPLICANT: Botstein, David
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gerritsen, Mary
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul
; APPLICANT: Grimaldi, Christopher
; APPLICANT: Gurney, Austin
; APPLICANT: Hillan, Kenneth
; APPLICANT: Kljavin, Ivar
; APPLICANT: Napier, Mary
; APPLICANT: Roy, Margaret
; APPLICANT: Tumas, Daniel
; APPLICANT: Wood, William
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P2548P1C1


```
; PRIOR APPLICATION NUMBER: 60/069,870
; PRIOR FILING DATE: December 17, 1997
; PRIOR APPLICATION NUMBER: 60/069,873
; PRIOR FILING DATE: December 17, 1997
; PRIOR APPLICATION NUMBER: 60/069,017
; PRIOR FILING DATE: December 18, 1997
; PRIOR APPLICATION NUMBER: 60/070,440
; PRIOR FILING DATE: January 5, 1998
; PRIOR APPLICATION NUMBER: 60/074,086
; PRIOR FILING DATE: February 9, 1998
; PRIOR APPLICATION NUMBER: 60/074,092
; PRIOR FILING DATE: February 9, 1998
; PRIOR APPLICATION NUMBER: 60/075,945
; PRIOR FILING DATE: February 25, 1998
; PRIOR APPLICATION NUMBER: 60/112,850
; PRIOR FILING DATE: December 16, 1998
; PRIOR APPLICATION NUMBER: 60/113,296
; PRIOR FILING DATE: December 22, 1998
; PRIOR APPLICATION NUMBER: 60/146,222
; PRIOR FILING DATE: July 28, 1999
; PRIOR APPLICATION NUMBER: PCT/US98/19330
; PRIOR FILING DATE: September 16, 1998
; PRIOR APPLICATION NUMBER: PCT/US98/25108
; PRIOR FILING DATE: December 1, 1998
; PRIOR APPLICATION NUMBER: 09/216,021
; PRIOR FILING DATE: December 16, 1998
; PRIOR APPLICATION NUMBER: 09/218,517
; PRIOR FILING DATE: December 22, 1998
; PRIOR APPLICATION NUMBER: 09/254,311
; PRIOR FILING DATE: March 3, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/12252
; PRIOR FILING DATE: June 22, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: September 15, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28409
; PRIOR FILING DATE: No. US20020142419A,ember 30, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: No. US20020142419A,ember 30, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28301
; PRIOR FILING DATE: December 1, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: December 16, 1999
; PRIOR APPLICATION NUMBER: PCT/US00/03565
; PRIOR FILING DATE: February 11, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: February 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/05841
; PRIOR FILING DATE: March 2, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/08439
; PRIOR FILING DATE: March 30, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/14042
; PRIOR FILING DATE: May 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/20710
; PRIOR FILING DATE: July 28, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/32678
; PRIOR FILING DATE: December 1, 2000
; PRIOR APPLICATION NUMBER: PCT/US01/06520
; PRIOR FILING DATE: February 28, 2001
; NUMBER OF SEQ ID NOS: 120
; SEQ ID NO 61
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-944-432-61

Query Match 35.5%; Score 150; DB 9; Length 440;
Best Local Similarity 100.0%; Pred. No. 1.1e-125;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 16 SAALIPGTGQNLFTKDVTVIEGVATISQVKNKSDSVIQLLNPNRQTIYRDFRPLK 75
Db 32 SAALIPGTGQNLFTKDVTVIEGVATISQVKNKSDSVIQLLNPNRQTIYRDFRPLK 91
```

76 DSRFQLNFSSELKSLVSLTNVSLSDGGRYFCOLYTDPPQESYTTITVLVPPRNLMDIQK 135
92 DSRFQLNFSSELKSLVSLTNVSLSDGGRYFCOLYTDPPQESYTTITVLVPPRNLMDIQK 151
136 DTAVEGEEIEVNCCTAMASKPATIRWPKGN 165
152 DTAVEGEEIEVNCCTAMASKPATIRWPKGN 181

RESULT 21
US-09-943-762-61
; Sequence 61, Application US/09943762
; Patent No. US20020142958A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin
; APPLICANT: Botstein, David
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gerritsen, Mary
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul
; APPLICANT: Grimaldi, Christopher
; APPLICANT: Gurney, Austin
; APPLICANT: Hillan, Kenneth
; APPLICANT: Kijavini, Ivar
; APPLICANT: Napier, Mary
; APPLICANT: Roy, Margaret
; APPLICANT: Tumas, Daniel
; APPLICANT: Wood, William
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P2548P1C1
; CURRENT APPLICATION NUMBER: US/09/943,762
; CURRENT FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: 09/866,028
; PRIOR FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: 60/067,411
; PRIOR FILING DATE: December 3, 1997
; PRIOR APPLICATION NUMBER: 60/069,334
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,335
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,278
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,425
; PRIOR FILING DATE: December 12, 1997
; PRIOR APPLICATION NUMBER: 60/069,896
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,694
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,702
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,870
; PRIOR FILING DATE: December 17, 1997
; PRIOR APPLICATION NUMBER: 60/069,873
; PRIOR FILING DATE: December 17, 1997
; PRIOR APPLICATION NUMBER: 60/068,017
; PRIOR FILING DATE: December 18, 1997
; PRIOR APPLICATION NUMBER: 60/070,440
; PRIOR FILING DATE: January 5, 1998
; PRIOR APPLICATION NUMBER: 60/074,086
; PRIOR FILING DATE: February 9, 1998
; PRIOR APPLICATION NUMBER: 60/074,092
; PRIOR FILING DATE: February 9, 1998
; PRIOR APPLICATION NUMBER: 60/075,945
; PRIOR FILING DATE: February 25, 1998
; PRIOR APPLICATION NUMBER: 60/112,850
; PRIOR FILING DATE: December 16, 1998
; PRIOR APPLICATION NUMBER: 60/113,296
; PRIOR FILING DATE: December 22, 1998
; PRIOR APPLICATION NUMBER: 60/146,222
; PRIOR FILING DATE: July 28, 1999

```
; PRIOR APPLICATION NUMBER: PCT/US98/19330
; PRIOR FILING DATE: September 16, 1998
; PRIOR APPLICATION NUMBER: PCT/US98/25108
; PRIOR FILING DATE: December 1, 1998
; PRIOR APPLICATION NUMBER: 09/216,021
; PRIOR FILING DATE: December 16, 1998
; PRIOR APPLICATION NUMBER: 09/218,517
; PRIOR FILING DATE: December 22, 1998
; PRIOR APPLICATION NUMBER: 09/254,311
; PRIOR FILING DATE: March 3, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/12252
; PRIOR FILING DATE: June 22, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: September 15, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28409
; PRIOR FILING DATE: No. US20020142958A1ember 30, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: No. US20020142958A1ember 30, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28301
; PRIOR FILING DATE: December 1, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: December 16, 1999
; PRIOR APPLICATION NUMBER: PCT/US00/03565
; PRIOR FILING DATE: February 11, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: February 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/05841
; PRIOR FILING DATE: March 2, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/08439
; PRIOR FILING DATE: March 30, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/14042
; PRIOR FILING DATE: May 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/20710
; PRIOR FILING DATE: July 28, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/32678
; PRIOR FILING DATE: December 1, 2000
; PRIOR APPLICATION NUMBER: PCT/US01/06520
; PRIOR FILING DATE: February 28, 2001
; NUMBER OF SEQ ID NOS: 120
; SEQ ID NO 61
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-943-762-61

Query Match          35.5%; Score 150; DB 9; Length 440;
Best Local Similarity 100.0%; Pred. No. 1.1e-125; Mismatches 0; Indels 0; Gaps 0;
Matches 150; Conservative 0;

QY 16 SAAALPTGQNLFTKDVTVIEGEVATISQVKNKSDSVIQLLNPNRQTIYFRDPRPLK 75
    |||||
Db 32 SAAALPTGQNLFTKDVTVIEGEVATISQVKNKSDSVIQLLNPNRQTIYFRDPRPLK 91
    |||||
QY 76 DSRFQLLNFSSSELKSLTNVTSIDEGRYFCQLYTDPQBSYTTITVLVPPRNLMDIOK 135
    |||||
Db 92 DSRFQLLNFSSSELKSLTNVTSIDEGRYFCQLYTDPQBSYTTITVLVPPRNLMDIOK 151
    |||||
QY 136 DTAVEGEIEVNCVTAMASKPATIRWPKGN 165
    |||||
Db 152 DTAVEGEIEVNCVTAMASKPATIRWPKGN 181
    |||||

RESULT 22
US-09-944-654-61
; Sequence 61, Application US/09944654
; Patent No. US20020142959A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin
; APPLICANT: Botstein, David
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Flivaroff, Ellen
; APPLICANT: Gerritsen, Mary
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul
; APPLICANT: Grimaldi, Christopher
; APPLICANT: Gurney, Austin
; APPLICANT: Hillan, Kenneth
; APPLICANT: Kljavin, Ivar
; APPLICANT: Napier, Mary
; APPLICANT: Roy, Margaret
; APPLICANT: Tumas, Daniel
; APPLICANT: Wood, William
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P2548P1C1
; CURRENT APPLICATION NUMBER: US/09/944,654
; CURRENT FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: 09/866,028
; PRIOR FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: 60/067,411
; PRIOR FILING DATE: December 3, 1997
; PRIOR APPLICATION NUMBER: 60/069,334
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,335
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,278
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,425
; PRIOR FILING DATE: December 12, 1997
; PRIOR APPLICATION NUMBER: 60/069,696
; PRIOR FILING DATE: December 15, 1997
; PRIOR APPLICATION NUMBER: 60/069,694
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,702
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,870
; PRIOR FILING DATE: December 17, 1997
; PRIOR APPLICATION NUMBER: 60/069,873
; PRIOR FILING DATE: December 17, 1997
; PRIOR APPLICATION NUMBER: 60/068,017
; PRIOR FILING DATE: December 18, 1997
; PRIOR APPLICATION NUMBER: 60/070,440
; PRIOR FILING DATE: January 5, 1998
; PRIOR APPLICATION NUMBER: 60/074,086
; PRIOR FILING DATE: February 9, 1998
; PRIOR APPLICATION NUMBER: 60/074,092
; PRIOR FILING DATE: February 9, 1998
; PRIOR APPLICATION NUMBER: 60/075,945
; PRIOR FILING DATE: February 25, 1998
; PRIOR APPLICATION NUMBER: 60/112,850
; PRIOR FILING DATE: December 16, 1998
; PRIOR APPLICATION NUMBER: 60/113,296
; PRIOR FILING DATE: December 22, 1998
; PRIOR APPLICATION NUMBER: 60/146,222
; PRIOR FILING DATE: July 28, 1999
; PRIOR APPLICATION NUMBER: PCT/US98/19330
; PRIOR FILING DATE: September 16, 1998
; PRIOR APPLICATION NUMBER: PCT/US98/25108
; PRIOR FILING DATE: December 1, 1998
; PRIOR APPLICATION NUMBER: 09/216,021
; PRIOR FILING DATE: December 16, 1998
; PRIOR APPLICATION NUMBER: 09/218,517
; PRIOR FILING DATE: December 22, 1998
; PRIOR APPLICATION NUMBER: 09/254,311
; PRIOR FILING DATE: March 3, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/12252
; PRIOR FILING DATE: June 22, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: September 15, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28409
; PRIOR FILING DATE: No. US20020142959A1ember 30, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: No. US20020142959A1ember 30, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28301
; PRIOR FILING DATE: December 1, 1999
```

; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: December 16, 1999
; PRIOR APPLICATION NUMBER: PCT/US00/03565
; PRIOR FILING DATE: February 11, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: February 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/05841
; PRIOR FILING DATE: March 2, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/08439
; PRIOR FILING DATE: March 30, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/14042
; PRIOR FILING DATE: May 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/20710
; PRIOR FILING DATE: July 28, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/32678
; PRIOR FILING DATE: December 1, 2000
; PRIOR APPLICATION NUMBER: PCT/US01/06520
; PRIOR FILING DATE: February 28, 2001
; NUMBER OF SEQ ID NOS: 120
; SEQ ID NO 61
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-944-654-61

Query Match 35.58; Score 150; DB 9; Length 440;

Best Local Similarity 100.0%; Pred. No. 1.le-125;

Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 16 SAALITGTGQNLFTKDVTVIEGEVATISQVKNKSDSVIQLLNPNRQTIYFRDRPLX 75

DB 32 SAALITGTGQNLFTKDVTVIEGEVATISQVKNKSDSVIQLLNPNRQTIYFRDRPLX 91

QY 76 DSRFQLNFSSSELKSLTNVSIISDEGRYFCQLYTDPPQESYTTITVLVPPRNLMDIQK 135

DB 92 DSRFQLNFSSSELKSLTNVSIISDEGRYFCQLYTDPPQESYTTITVLVPPRNLMDIQK 151

QY 136 DTAVEGEIEVNTAMASKPATIRWPKGN 165

DB 152 DTAVEGEIEVNTAMASKPATIRWPKGN 181

RESULT 23

US-09-943-851A-61

; Sequence 61, Application US/09943851A

; Patent No. US20020150976A1

; GENERAL INFORMATION:

; APPLICANT: Baker, Kevin

; APPLICANT: Botstein, David

; APPLICANT: Baton, Dan

; APPLICANT: Ferrara, Napoleone

; APPLICANT: Filvaroff, Ellen

; APPLICANT: Gerritsen, Mary

; APPLICANT: Goddard, Audrey

; APPLICANT: Godowski, Paul

; APPLICANT: Grimaldi, Christopher

; APPLICANT: Gurney, Austin

; APPLICANT: Hillan, Kenneth

; APPLICANT: KJjavin, Ivar

; APPLICANT: Napier, Mary

; APPLICANT: Roy, Margaret

; APPLICANT: Tumas, Daniel

; APPLICANT: Wood, William

; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC

; FILE REFERENCE: P2548P1C1

; CURRENT APPLICATION NUMBER: US/09/943,851A

; CURRENT FILING DATE: 2001-08-30

; PRIOR APPLICATION NUMBER: US/09/865,028

; PRIOR FILING DATE: 2001-05-25

; PRIOR APPLICATION NUMBER: 60/067,411

; PRIOR FILING DATE: December 3, 1997

; PRIOR APPLICATION NUMBER: 60/069,334

; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069335
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,278
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,425
; PRIOR FILING DATE: December 12, 1997
; PRIOR APPLICATION NUMBER: 60/069,696
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,694
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,702
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,870
; PRIOR FILING DATE: December 17, 1997
; PRIOR APPLICATION NUMBER: 60/069,873
; PRIOR FILING DATE: December 17, 1997
; PRIOR APPLICATION NUMBER: 60/068,017
; PRIOR FILING DATE: December 18, 1997
; PRIOR APPLICATION NUMBER: 60/070,440
; PRIOR FILING DATE: January 5, 1998
; PRIOR APPLICATION NUMBER: 60/074,086
; PRIOR FILING DATE: February 9, 1998
; PRIOR APPLICATION NUMBER: 60/074,092
; PRIOR FILING DATE: February 9, 1998
; PRIOR APPLICATION NUMBER: 60/075,345
; PRIOR FILING DATE: February 25, 1998
; PRIOR APPLICATION NUMBER: 60/112,850
; PRIOR FILING DATE: December 16, 1998
; PRIOR APPLICATION NUMBER: 60/113,296
; PRIOR FILING DATE: December 22, 1998
; PRIOR APPLICATION NUMBER: 60/146,222
; PRIOR FILING DATE: July 28, 1999
; PRIOR APPLICATION NUMBER: PCT/US98/19330
; PRIOR FILING DATE: September 16, 1998
; PRIOR APPLICATION NUMBER: PCT/US98/25108
; PRIOR FILING DATE: December 1, 1998
; PRIOR APPLICATION NUMBER: 09/216,021
; PRIOR FILING DATE: December 16, 1998
; PRIOR APPLICATION NUMBER: 09/218,517
; PRIOR FILING DATE: December 22, 1998
; PRIOR APPLICATION NUMBER: 09/254,311
; PRIOR FILING DATE: March 3, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/12252
; PRIOR FILING DATE: June 22, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: September 15, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28409
; PRIOR FILING DATE: No. US20020150976A1ember 30, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: No. US20020150976A1ember 30, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28301
; PRIOR FILING DATE: December 1, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: December 16, 1999
; PRIOR APPLICATION NUMBER: PCT/US00/03565
; PRIOR FILING DATE: February 11, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: February 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/05841
; PRIOR FILING DATE: March 2, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/08439
; PRIOR FILING DATE: March 30, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/14042
; PRIOR FILING DATE: May 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/20710
; PRIOR FILING DATE: July 28, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/32678
; PRIOR FILING DATE: December 1, 2000
; PRIOR APPLICATION NUMBER: PCT/US01/06520
; PRIOR FILING DATE: February 28, 2001
; NUMBER OF SEQ ID NOS: 120
; SEQ ID NO 61

RESULT 25
US-09-944-403-61
; Sequence 61, Application US/09944403
; Patent No. US20020165143A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin
; APPLICANT: Botstein, David
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gerritsen, Mary
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul
; APPLICANT: Grimaldi, Christopher
; APPLICANT: Gurney, Austin
; APPLICANT: Hillan, Kenneth
; APPLICANT: Kljavin, Ivar
; APPLICANT: Napier, Mary
; APPLICANT: Roy, Margaret
; APPLICANT: Tumas, Daniel
; APPLICANT: Wood, William
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; TITLE OF INVENTION: ACIDS ENCODING THE SAME
; FILE REFERENCE: P2548PIC1
; CURRENT APPLICATION NUMBER: US/09/944,403
; CURRENT FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: 09/866,028
; PRIOR FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: 60/067,411
; PRIOR FILING DATE: December 3, 1997
; PRIOR APPLICATION NUMBER: 60/069,334
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,335
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,278
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,425
; PRIOR FILING DATE: December 12, 1997
; PRIOR APPLICATION NUMBER: 60/069,696
; PRIOR FILING DATE: December 15, 1997
; PRIOR APPLICATION NUMBER: 60/069,694
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,702
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,870
; PRIOR FILING DATE: December 17, 1997
; PRIOR APPLICATION NUMBER: 60/069,873
; PRIOR FILING DATE: December 17, 1997
; PRIOR APPLICATION NUMBER: 60/068,017
; PRIOR FILING DATE: December 18, 1997
; PRIOR APPLICATION NUMBER: 60/070,440
; PRIOR FILING DATE: January 5, 1998
; PRIOR APPLICATION NUMBER: 60/074,086
; PRIOR FILING DATE: February 9, 1998
; PRIOR APPLICATION NUMBER: 60/074,092
; PRIOR FILING DATE: February 9, 1998
; PRIOR APPLICATION NUMBER: 60/075,945
; PRIOR FILING DATE: February 25, 1998
; PRIOR APPLICATION NUMBER: 60/112,850
; PRIOR FILING DATE: December 16, 1998
; PRIOR APPLICATION NUMBER: 60/113,296
; PRIOR FILING DATE: December 22, 1998
; PRIOR APPLICATION NUMBER: 60/146,222
; PRIOR FILING DATE: July 28, 1999
; PRIOR APPLICATION NUMBER: PCT/US98/19330
; PRIOR FILING DATE: September 16, 1998
; PRIOR APPLICATION NUMBER: PCT/US98/25108
; PRIOR FILING DATE: December 1, 1998
; PRIOR APPLICATION NUMBER: 09/216,021
; PRIOR FILING DATE: December 16, 1998
; PRIOR APPLICATION NUMBER: 09/218,517


```
; APPLICANT: Ferrara,Napoleone
; APPLICANT: Filvaroff,Ellen
; APPLICANT: Gerritsen,Mary
; APPLICANT: Goddard,Audrey
; APPLICANT: Godowski,Paul
; APPLICANT: Grimaldi,Christopher
; APPLICANT: Gurney,Austin
; APPLICANT: Hillan,Kenneth
; APPLICANT: Kijavin,Ivar
; APPLICANT: Napier,Mary
; APPLICANT: Roy,Margaret
; APPLICANT: Tumas,Daniel
; APPLICANT: Wood,William
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P2548P1C1
; CURRENT APPLICATION NUMBER: US/09/944,907
; CURRENT FILING DATE: 2001-08-31
; PRIOR APPLICATION NUMBER: 09/866,028
; PRIOR FILING DATE: 2001-05-25
; NUMBER OF SEQ ID NOS: 120
; SEQ ID NO 61
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-944-907-61

Query Match      35.5%; Score 150; DB 9; Length 440;
Best Local Similarity 100.0%; Pred. No. 1.1e-125;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 16 SAAALPTGQQLFTKDVTVIEGEVATISCVQNKSDSDSVIQLNPNRQTIYFRDPRPLK 75
Db 32 SAAALPTGQQLFTKDVTVIEGEVATISCVQNKSDSDSVIQLNPNRQTIYFRDPRPLK 91
QY 76 DSRFQLNFSSELKVSILTNVSIISDEGRYFCQLYTDPQESYTTITVLVPPRNLMDIOK 135
Db 92 DSRFQLNFSSELKVSILTNVSIISDEGRYFCQLYTDPQESYTTITVLVPPRNLMDIOK 151
QY 136 DTAVEGEIEVNCTAMASKPATIRWFKGN 165
Db 152 DTAVEGEIEVNCTAMASKPATIRWFKGN 181

RESULT 30
US-09-944-884-61
; Sequence 61, Application US/09944884
; Publication No. US2003007698A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin
; APPLICANT: Botstein,David
; APPLICANT: Eaton,Dan
; APPLICANT: Ferrara,Napoleone
; APPLICANT: Filvaroff,Ellen
; APPLICANT: Gerritsen,Mary
; APPLICANT: Goddard,Audrey
; APPLICANT: Godowski,Paul
; APPLICANT: Grimaldi,Christopher
; APPLICANT: Gurney,Austin
; APPLICANT: Hillan,Kenneth
; APPLICANT: Kijavin,Ivar
; APPLICANT: Napier,Mary
; APPLICANT: Roy,Margaret
; APPLICANT: Tumas,Daniel
; APPLICANT: Wood,William
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P2548P1C1
; CURRENT APPLICATION NUMBER: US/09/944,884
; CURRENT FILING DATE: 2001-08-31
; PRIOR APPLICATION NUMBER: 09/866,028
; PRIOR FILING DATE: 2001-05-25
; NUMBER OF SEQ ID NOS: 120
; SEQ ID NO 61
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-944-884-61

Query Match      35.5%; Score 150; DB 9; Length 440;
Best Local Similarity 100.0%; Pred. No. 1.1e-125;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 16 SAAALPTGQQLFTKDVTVIEGEVATISCVQNKSDSDSVIQLNPNRQTIYFRDPRPLK 75
Db 32 SAAALPTGQQLFTKDVTVIEGEVATISCVQNKSDSDSVIQLNPNRQTIYFRDPRPLK 91
QY 76 DSRFQLNFSSELKVSILTNVSIISDEGRYFCQLYTDPQESYTTITVLVPPRNLMDIOK 135
Db 92 DSRFQLNFSSELKVSILTNVSIISDEGRYFCQLYTDPQESYTTITVLVPPRNLMDIOK 151
QY 136 DTAVEGEIEVNCTAMASKPATIRWFKGN 165
Db 152 DTAVEGEIEVNCTAMASKPATIRWFKGN 181
```

```
; SEQ ID NO 61
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-944-884-61

Query Match      35.5%; Score 150; DB 10; Length 440;
Best Local Similarity 100.0%; Pred. No. 1.1e-125;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 16 SAAALPTGQQLFTKDVTVIEGEVATISCVQNKSDSDSVIQLNPNRQTIYFRDPRPLK 75
Db 32 SAAALPTGQQLFTKDVTVIEGEVATISCVQNKSDSDSVIQLNPNRQTIYFRDPRPLK 91
QY 76 DSRFQLNFSSELKVSILTNVSIISDEGRYFCQLYTDPQESYTTITVLVPPRNLMDIOK 135
Db 92 DSRFQLNFSSELKVSILTNVSIISDEGRYFCQLYTDPQESYTTITVLVPPRNLMDIOK 151
QY 136 DTAVEGEIEVNCTAMASKPATIRWFKGN 165
Db 152 DTAVEGEIEVNCTAMASKPATIRWFKGN 181

RESULT 31
US-09-944-852-61
; Sequence 61, Application US/09944852
; Publication No. US20030083479A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin
; APPLICANT: Botstein,David
; APPLICANT: Eaton,Dan
; APPLICANT: Ferrara,Napoleone
; APPLICANT: Filvaroff,Ellen
; APPLICANT: Gerritsen,Mary
; APPLICANT: Goddard,Audrey
; APPLICANT: Godowski,Paul
; APPLICANT: Grimaldi,Christopher
; APPLICANT: Gurney,Austin
; APPLICANT: Hillan,Kenneth
; APPLICANT: Kijavin,Ivar
; APPLICANT: Napier,Mary
; APPLICANT: Roy,Margaret
; APPLICANT: Tumas,Daniel
; APPLICANT: Wood,William
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P2548P1C1
; CURRENT APPLICATION NUMBER: US/09/944,852
; CURRENT FILING DATE: 2001-08-31
; PRIOR APPLICATION NUMBER: 09/866,028
; PRIOR FILING DATE: 2001-05-25
; NUMBER OF SEQ ID NOS: 120
; SEQ ID NO 61
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-944-852-61

Query Match      35.5%; Score 150; DB 10; Length 440;
Best Local Similarity 100.0%; Pred. No. 1.1e-125;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 16 SAAALPTGQQLFTKDVTVIEGEVATISCVQNKSDSDSVIQLNPNRQTIYFRDPRPLK 75
Db 32 SAAALPTGQQLFTKDVTVIEGEVATISCVQNKSDSDSVIQLNPNRQTIYFRDPRPLK 91
QY 76 DSRFQLNFSSELKVSILTNVSIISDEGRYFCQLYTDPQESYTTITVLVPPRNLMDIOK 135
Db 92 DSRFQLNFSSELKVSILTNVSIISDEGRYFCQLYTDPQESYTTITVLVPPRNLMDIOK 151
QY 136 DTAVEGEIEVNCTAMASKPATIRWFKGN 165
Db 152 DTAVEGEIEVNCTAMASKPATIRWFKGN 181
```


RESULT 32

US-09-943-780-61
; Sequence 61, Application US/09943780
; Publication No. US20030096742A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin
; APPLICANT: Botstein, David
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gerriksen, Mary
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul
; APPLICANT: Grimaldi, Christopher
; APPLICANT: Gurney, Austin
; APPLICANT: Hillan, Kenneth
; APPLICANT: Kljavin, Ivar
; APPLICANT: Napier, Mary
; APPLICANT: Roy, Margaret
; APPLICANT: Tumas, Daniel
; APPLICANT: Wood, William
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P2548P1C1
; CURRENT APPLICATION NUMBER: US/09/943,780
; PRIOR FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: 09/866,028
; PRIOR FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: 60/067,411
; PRIOR FILING DATE: December 3, 1997
; PRIOR APPLICATION NUMBER: 60/069,334
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,335
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,278
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,694
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,702
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,870
; PRIOR FILING DATE: December 17, 1997
; PRIOR APPLICATION NUMBER: 60/069,873
; PRIOR FILING DATE: December 17, 1997
; PRIOR APPLICATION NUMBER: 60/068,017
; PRIOR FILING DATE: December 18, 1997
; PRIOR APPLICATION NUMBER: 60/070,440
; PRIOR FILING DATE: January 5, 1998
; PRIOR APPLICATION NUMBER: 60/074,086
; PRIOR FILING DATE: February 9, 1998
; PRIOR APPLICATION NUMBER: 60/074,092
; PRIOR FILING DATE: February 9, 1998
; PRIOR APPLICATION NUMBER: 60/075,945
; PRIOR FILING DATE: February 25, 1998
; PRIOR APPLICATION NUMBER: 60/112,850
; PRIOR FILING DATE: December 16, 1998
; PRIOR APPLICATION NUMBER: 60/113,296
; PRIOR FILING DATE: December 22, 1998
; PRIOR APPLICATION NUMBER: 60/146,222
; PRIOR FILING DATE: July 28, 1999
; PRIOR APPLICATION NUMBER: PCT/US98/19330
; PRIOR FILING DATE: September 16, 1998
; PRIOR APPLICATION NUMBER: PCT/US98/25108
; PRIOR FILING DATE: December 1, 1998
; PRIOR APPLICATION NUMBER: 09/216,021
; PRIOR FILING DATE: December 16, 1998
; PRIOR APPLICATION NUMBER: 09/218,517

; PRIOR FILING DATE: December 22, 1998
; PRIOR APPLICATION NUMBER: 09/254,311
; PRIOR FILING DATE: March 3, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/12252
; PRIOR FILING DATE: June 22, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: September 15, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28409
; PRIOR FILING DATE: NO. US20030096742A1ember 30, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: NO. US20030096742A1ember 30, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28301
; PRIOR FILING DATE: December 1, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: December 16, 1999
; PRIOR APPLICATION NUMBER: PCT/US00/03565
; PRIOR FILING DATE: February 11, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: February 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/05841
; PRIOR FILING DATE: March 2, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/08439
; PRIOR FILING DATE: March 30, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/14042
; PRIOR FILING DATE: May 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/20710
; PRIOR FILING DATE: July 28, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/32678
; PRIOR FILING DATE: December 1, 2000
; PRIOR APPLICATION NUMBER: PCT/US01/06520
; PRIOR FILING DATE: February 28, 2001
; NUMBER OF SEQ ID NOS: 120
; SEQ ID NO 61
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-943-780-61

Query Match 35.5%; Score 150; DB 10; Length 440;
Best Local Similarity 100.0%; Pred. No. 1.1e-125;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

| | | | | |
|----|-----|-----------------------------|----------------------------|------------|
| Qy | 16 | SAAALPTGDGQNLTKDVTVEIEGVA | TSCQNKSDSDSVIQLNPNRQTIYFRD | PLK 75 |
| Db | 32 | SAAALPTGDGQNLTKDVTVEIEGVA | TSCQNKSDSDSVIQLNPNRQTIYFRD | PLK 91 |
| Qy | 76 | DSRFQLNFSSSELKYSLTNVSISDEGR | YFCQLYTDPPOESYTTITVLVPPRNL | MIDIQK 135 |
| Db | 92 | DSRFQLNFSSSELKYSLTNVSISDEGR | YFCQLYTDPPOESYTTITVLVPPRNL | MIDIQK 151 |
| Qy | 136 | DTAVEGEEIEVNCNTAMASKPATIRW | FKGN 165 | |
| Db | 152 | DTAVEGEEIEVNCNTAMASKPATIRW | FKGN 181 | |

RESULT 33

US-09-945-584-61
; Sequence 61, Application US/09945584
; Publication No. US20030211570A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin
; APPLICANT: Botstein, David
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gerriksen, Mary
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul
; APPLICANT: Grimaldi, Christopher
; APPLICANT: Gurney, Austin
; APPLICANT: Hillan, Kenneth
; APPLICANT: Kljavin, Ivar
; APPLICANT: Napier, Mary

```
; APPLICANT: Roy, Margaret
; APPLICANT: Tumas, Daniel
; APPLICANT: Wood, William
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC.
; FILE REFERENCE: P2548P1C1
; CURRENT APPLICATION NUMBER: US/09/945,584
; CURRENT FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: 09/866,028
; PRIOR FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: 60/067,411
; PRIOR FILING DATE: December 3, 1997
; PRIOR APPLICATION NUMBER: 60/069,334
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,335
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,278
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,425
; PRIOR FILING DATE: December 12, 1997
; PRIOR APPLICATION NUMBER: 60/069,696
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,694
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,702
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,870
; PRIOR FILING DATE: December 17, 1997
; PRIOR APPLICATION NUMBER: 60/069,873
; PRIOR FILING DATE: December 17, 1997
; PRIOR APPLICATION NUMBER: 60/068,017
; PRIOR FILING DATE: December 18, 1997
; PRIOR APPLICATION NUMBER: 60/070,440
; PRIOR FILING DATE: January 5, 1998
; PRIOR APPLICATION NUMBER: 60/074,086
; PRIOR FILING DATE: February 9, 1998
; PRIOR APPLICATION NUMBER: 60/074,092
; PRIOR FILING DATE: February 9, 1998
; PRIOR APPLICATION NUMBER: 60/075,945
; PRIOR FILING DATE: February 25, 1998
; PRIOR APPLICATION NUMBER: 60/112,850
; PRIOR FILING DATE: December 16, 1998
; PRIOR APPLICATION NUMBER: 60/113,296
; PRIOR FILING DATE: December 22, 1998
; PRIOR APPLICATION NUMBER: 60/146,222
; PRIOR FILING DATE: July 28, 1999
; PRIOR APPLICATION NUMBER: PCT/US98/19330
; PRIOR FILING DATE: September 16, 1998
; PRIOR APPLICATION NUMBER: PCT/US98/25108
; PRIOR FILING DATE: December 1, 1998
; PRIOR APPLICATION NUMBER: 09/216,021
; PRIOR FILING DATE: December 16, 1998
; PRIOR APPLICATION NUMBER: 09/218,517
; PRIOR FILING DATE: December 22, 1998
; PRIOR APPLICATION NUMBER: 09/254,311
; PRIOR FILING DATE: March 3, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/12252
; PRIOR FILING DATE: June 22, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: September 15, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28409
; PRIOR FILING DATE: No. US20030211570A1ember 30, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: No. US20030211570A1ember 30, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28301
; PRIOR FILING DATE: December 1, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: December 16, 1999
; PRIOR APPLICATION NUMBER: PCT/US00/03565
; PRIOR FILING DATE: February 11, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: February 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/05841
```

```
; PRIOR FILING DATE: March 2, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/08439
; PRIOR FILING DATE: March 30, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/14042
; PRIOR FILING DATE: May 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/20710
; PRIOR FILING DATE: July 28, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/32678
; PRIOR FILING DATE: December 1, 2000
; PRIOR APPLICATION NUMBER: PCT/US01/06520
; PRIOR FILING DATE: February 28, 2001
; NUMBER OF SEQ ID NOS: 120
; SEQ ID NO 61
; TYPE: PRT
; LENGTH: 440
; ORGANISM: Homo Sapien
; US-09-945-584-61

Query Match      35.5%; Score 150; DB 10; Length 440;
Best Local Similarity 100.0%; Pred. No. 1.1e-125;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 16 SAAALPTGCGONLFTKQVTVIEGEVATISCVNKSDDSVIQLNPNROTIIYFRDRPLK 75
DB 32 SAAALPTGCGONLFTKQVTVIEGEVATISCVNKSDDSVIQLNPNROTIIYFRDRPLK 91
QY 76 DSRFQLNPFSSSELKVSILTNVSIISDEGRYFCQLYTDPPOESYTTITVLVPPNLMIDIQK 135
DB 92 DSRFQLNPFSSSELKVSILTNVSIISDEGRYFCQLYTDPPOESYTTITVLVPPNLMIDIQK 151
QY 136 DPAVEGEIEVNCVTAMASKPATTIRWFKGN 165
DB 152 DPAVEGEIEVNCVTAMASKPATTIRWFKGN 181

RESULT 34
US-09-943-664-61
; Sequence 61, Application US/09943664
; Publication No. US20040091972A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin
; APPLICANT: Botstein, David
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gerritsen, Mary
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul
; APPLICANT: Grimaldi, Christopher
; APPLICANT: Gurney, Austin
; APPLICANT: Hillan, Kenneth
; APPLICANT: Kljavin, Ivar
; APPLICANT: Napier, Mary
; APPLICANT: Roy, Margaret
; APPLICANT: Tumas, Daniel
; APPLICANT: Wood, William
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P2548P1C1
; CURRENT APPLICATION NUMBER: US/09/943,664
; CURRENT FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: 09/866,028
; PRIOR FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: 60/067,411
; PRIOR FILING DATE: December 3, 1997
; PRIOR APPLICATION NUMBER: 60/069,334
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,335
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,278
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,425
; PRIOR FILING DATE: December 12, 1997
```

; PRIOR APPLICATION NUMBER: 60/069,696
 ; PRIOR FILING DATE: December 16, 1997
 ; PRIOR APPLICATION NUMBER: 60/069,694
 ; PRIOR FILING DATE: December 16, 1997
 ; PRIOR APPLICATION NUMBER: 60/069,702
 ; PRIOR FILING DATE: December 16, 1997
 ; PRIOR APPLICATION NUMBER: 60/069,870
 ; PRIOR FILING DATE: December 17, 1997
 ; PRIOR APPLICATION NUMBER: 60/069,873
 ; PRIOR FILING DATE: December 17, 1997
 ; PRIOR APPLICATION NUMBER: 60/069,017
 ; PRIOR FILING DATE: December 18, 1997
 ; PRIOR APPLICATION NUMBER: 60/070,440
 ; PRIOR FILING DATE: January 5, 1998
 ; PRIOR APPLICATION NUMBER: 60/074,086
 ; PRIOR FILING DATE: February 9, 1998
 ; PRIOR APPLICATION NUMBER: 60/074,092
 ; PRIOR FILING DATE: February 9, 1998
 ; PRIOR APPLICATION NUMBER: 60/075,945
 ; PRIOR FILING DATE: February 25, 1998
 ; PRIOR APPLICATION NUMBER: 60/112,850
 ; PRIOR FILING DATE: December 16, 1998
 ; PRIOR APPLICATION NUMBER: 60/113,296
 ; PRIOR FILING DATE: December 22, 1998
 ; PRIOR APPLICATION NUMBER: 60/146,222
 ; PRIOR FILING DATE: July 28, 1999
 ; PRIOR APPLICATION NUMBER: PCT/US98/19330
 ; PRIOR FILING DATE: September 16, 1998
 ; PRIOR APPLICATION NUMBER: PCT/US98/25108
 ; PRIOR FILING DATE: December 1, 1998
 ; PRIOR APPLICATION NUMBER: 09/216,021
 ; PRIOR FILING DATE: December 16, 1998
 ; PRIOR APPLICATION NUMBER: 09/218,517
 ; PRIOR FILING DATE: December 22, 1998
 ; PRIOR APPLICATION NUMBER: 09/254,311
 ; PRIOR FILING DATE: March 3, 1999
 ; PRIOR APPLICATION NUMBER: PCT/US99/12252
 ; PRIOR FILING DATE: June 22, 1999
 ; PRIOR APPLICATION NUMBER: PCT/US99/21090
 ; PRIOR FILING DATE: September 15, 1999
 ; PRIOR APPLICATION NUMBER: PCT/US99/28409
 ; PRIOR FILING DATE: November 30, 1999
 ; PRIOR APPLICATION NUMBER: PCT/US99/28313
 ; PRIOR FILING DATE: November 30, 1999
 ; PRIOR APPLICATION NUMBER: PCT/US99/28301
 ; PRIOR FILING DATE: December 1, 1999
 ; PRIOR APPLICATION NUMBER: PCT/US99/30095
 ; PRIOR FILING DATE: December 16, 1999
 ; PRIOR APPLICATION NUMBER: PCT/US00/03565
 ; PRIOR FILING DATE: February 11, 2000
 ; PRIOR APPLICATION NUMBER: PCT/US00/04414
 ; PRIOR FILING DATE: February 22, 2000
 ; PRIOR APPLICATION NUMBER: PCT/US00/05841
 ; PRIOR FILING DATE: March 2, 2000
 ; PRIOR APPLICATION NUMBER: PCT/US00/08439
 ; PRIOR FILING DATE: March 30, 2000
 ; PRIOR APPLICATION NUMBER: PCT/US00/14042
 ; PRIOR FILING DATE: May 22, 2000
 ; PRIOR APPLICATION NUMBER: PCT/US00/20710
 ; PRIOR FILING DATE: July 28, 2000
 ; PRIOR APPLICATION NUMBER: PCT/US00/32678
 ; PRIOR FILING DATE: December 1, 2000
 ; PRIOR APPLICATION NUMBER: PCT/US01/06520
 ; PRIOR FILING DATE: February 28, 2001
 ; NUMBER OF SEQ ID NOS: 120
 ; SEQ ID NO 61
 ; LENGTH: 440
 ; TYPE: PRT
 ; ORGANISM: Homo Sapien
 ; US-09-943-664-61

Query Match 35, 58; Score 150; DB 11; Length 440;
 Best Local Similarity 100.0%; Pred. No. 1.1e-125;

Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Qy 16 SAALPTGQNLFTKDVTVIEGEVATISQVNVKSDSVIQLNPNRQTIYFRDPLK 75
 Db 32 SAALPTGQNLFTKDVTVIEGEVATISQVNVKSDSVIQLNPNRQTIYFRDPLK 91
 Qy 76 DSRFQLNFFSSSELKSLTNVTSIDEGRYFCQLYTDPQSSYTTITVLVPPRNLMIDIOK 135
 Db 92 DSRFQLNFFSSSELKSLTNVTSIDEGRYFCQLYTDPQSSYTTITVLVPPRNLMIDIOK 151
 Qy 136 DTAVEGEIEVNCCTAMASKDPATTIRWPKGN 165
 Db 152 DTAVEGEIEVNCCTAMASKDPATTIRWPKGN 181
 RESULT 35
 US-10-052-586-34
 ; Sequence 34, Application US/10052586
 ; Publication No. US20020127584A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Baker, Kevin P.
 ; APPLICANT: Chen, Jian
 ; APPLICANT: Desnoyers, Luc
 ; APPLICANT: Goddard, Audrey
 ; APPLICANT: Godowski, Paul J.
 ; APPLICANT: Gurney, Austin L.
 ; APPLICANT: Pan, James
 ; APPLICANT: Smith, Victoria
 ; APPLICANT: Watanabe, Colin K.
 ; APPLICANT: Wood, William I.
 ; APPLICANT: Zhang, Zemin
 ; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
 ; FILE REFERENCE: P3430R1C1
 ; CURRENT APPLICATION NUMBER: US/10/052,586
 ; PRIOR APPLICATION NUMBER: 60/059263
 ; PRIOR FILING DATE: 1997-09-18
 ; PRIOR APPLICATION NUMBER: 60/059266
 ; PRIOR FILING DATE: 1997-09-18
 ; PRIOR APPLICATION NUMBER: 60/062250
 ; PRIOR FILING DATE: 1997-10-17
 ; PRIOR APPLICATION NUMBER: 60/063120
 ; PRIOR FILING DATE: 1997-10-24
 ; PRIOR APPLICATION NUMBER: 60/063121
 ; PRIOR FILING DATE: 1997-10-24
 ; PRIOR APPLICATION NUMBER: 60/063486
 ; PRIOR FILING DATE: 1997-10-21
 ; PRIOR APPLICATION NUMBER: 60/063540
 ; PRIOR FILING DATE: 1997-10-28
 ; PRIOR APPLICATION NUMBER: 60/063541
 ; PRIOR FILING DATE: 1997-10-28
 ; PRIOR APPLICATION NUMBER: 60/063544
 ; PRIOR FILING DATE: 1997-10-28
 ; PRIOR APPLICATION NUMBER: 60/063564
 ; PRIOR FILING DATE: 1997-10-28
 ; PRIOR APPLICATION NUMBER: 60/063734
 ; PRIOR FILING DATE: 1997-10-29
 ; PRIOR APPLICATION NUMBER: 60/063870
 ; PRIOR FILING DATE: 1997-10-31
 ; PRIOR APPLICATION NUMBER: 60/064103
 ; PRIOR FILING DATE: 1997-10-31
 ; PRIOR APPLICATION NUMBER: 60/065311
 ; PRIOR FILING DATE: 1997-11-13
 ; PRIOR APPLICATION NUMBER: 60/066120
 ; PRIOR FILING DATE: 1997-11-21
 ; PRIOR APPLICATION NUMBER: 60/066466
 ; PRIOR FILING DATE: 1997-11-24
 ; PRIOR APPLICATION NUMBER: 60/066772
 ; PRIOR FILING DATE: 1997-11-24
 ; PRIOR APPLICATION NUMBER: 60/069335
 ; PRIOR FILING DATE: 1997-12-11
 ; PRIOR APPLICATION NUMBER: 60/069425

| | | | |
|---|-----|--|-----|
| Db | 92 | DSRQLNFFSSSELUKSLTNVSDGRYFCQLYTDPQESYTTITVLVPPRNLMIIDIQK | 151 |
| Qy | 136 | DTAVEGEIEVNCVTAMASKPATIRWPKGN | 165 |
| Db | 152 | DTAVEGEIEVNCVTAMASKPATIRWPKGN | 181 |
| RESULT 39 | | | |
| US-10-174-581-34 | | | |
| ; Sequence 34, Application US/10174581 | | | |
| ; Publication No. US20030017540A1 | | | |
| ; GENERAL INFORMATION: | | | |
| ; APPLICANT: Baker, Kevin P. | | | |
| ; APPLICANT: Chen, Jian | | | |
| ; APPLICANT: Desnoyers, Luc | | | |
| ; APPLICANT: Goddard, Audrey | | | |
| ; APPLICANT: Godowski, Paul J. | | | |
| ; APPLICANT: Gurney, Austin L. | | | |
| ; APPLICANT: Pan, James | | | |
| ; APPLICANT: Smith, Victoria | | | |
| ; APPLICANT: Watanabe, Colin K. | | | |
| ; APPLICANT: Wood, William I. | | | |
| ; APPLICANT: Zhang, Zemin | | | |
| ; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC | | | |
| ; TITLE OF INVENTION: ACIDS ENCODING THE SAME | | | |
| ; FILE REFERENCE: P3430R1C41 | | | |
| ; CURRENT APPLICATION NUMBER: US/10/174,581 | | | |
| ; PRIOR FILING DATE: 2002-06-18 | | | |
| ; PRIOR APPLICATION NUMBER: 10/052586 | | | |
| ; PRIOR FILING DATE: 2002-01-15 | | | |
| ; PRIOR APPLICATION NUMBER: 60/059263 | | | |
| ; PRIOR FILING DATE: 1997-09-18 | | | |
| ; PRIOR APPLICATION NUMBER: 60/059266 | | | |
| ; PRIOR FILING DATE: 1997-09-18 | | | |
| ; PRIOR APPLICATION NUMBER: 60/062250 | | | |
| ; PRIOR FILING DATE: 1997-10-17 | | | |
| ; PRIOR APPLICATION NUMBER: 60/063120 | | | |
| ; PRIOR FILING DATE: 1997-10-24 | | | |
| ; PRIOR APPLICATION NUMBER: 60/063121 | | | |
| ; PRIOR FILING DATE: 1997-10-24 | | | |
| ; PRIOR APPLICATION NUMBER: 60/063486 | | | |
| ; PRIOR FILING DATE: 1997-10-21 | | | |
| ; PRIOR APPLICATION NUMBER: 60/063540 | | | |
| ; PRIOR FILING DATE: 1997-10-28 | | | |
| ; PRIOR APPLICATION NUMBER: 60/063541 | | | |
| ; PRIOR FILING DATE: 1997-10-28 | | | |
| ; PRIOR APPLICATION NUMBER: 60/063544 | | | |
| ; PRIOR FILING DATE: 1997-10-28 | | | |
| ; PRIOR APPLICATION NUMBER: 60/063564 | | | |
| ; PRIOR FILING DATE: 1997-10-28 | | | |
| ; PRIOR APPLICATION NUMBER: 60/063734 | | | |
| ; PRIOR FILING DATE: 1997-10-29 | | | |
| ; PRIOR APPLICATION NUMBER: 60/063870 | | | |
| ; PRIOR FILING DATE: 1997-10-31 | | | |
| ; PRIOR APPLICATION NUMBER: 60/064103 | | | |
| ; PRIOR FILING DATE: 1997-10-31 | | | |
| ; PRIOR APPLICATION NUMBER: 60/065311 | | | |
| ; PRIOR FILING DATE: 1997-11-13 | | | |
| ; PRIOR APPLICATION NUMBER: 60/066120 | | | |
| ; PRIOR FILING DATE: 1997-11-21 | | | |
| ; PRIOR APPLICATION NUMBER: 60/066466 | | | |
| ; PRIOR FILING DATE: 1997-11-24 | | | |
| ; PRIOR APPLICATION NUMBER: 60/066772 | | | |
| ; PRIOR FILING DATE: 1997-11-24 | | | |
| ; PRIOR APPLICATION NUMBER: 60/069335 | | | |
| ; PRIOR FILING DATE: 1997-12-11 | | | |
| ; PRIOR APPLICATION NUMBER: 60/069425 | | | |
| ; PRIOR FILING DATE: 1997-12-12 | | | |
| ; PRIOR APPLICATION NUMBER: 60/069870 | | | |
| ; PRIOR FILING DATE: 1997-12-17 | | | |
| ; PRIOR APPLICATION NUMBER: 60/068017 | | | |
| ; PRIOR FILING DATE: 1997-12-18 | | | |
| ; PRIOR APPLICATION NUMBER: 60/087458 | | | |
| ; PRIOR FILING DATE: 1998-03-10 | | | |
| ; PRIOR APPLICATION NUMBER: 60/077632 | | | |
| ; PRIOR FILING DATE: 1998-03-11 | | | |
| ; PRIOR APPLICATION NUMBER: 60/077649 | | | |
| ; PRIOR FILING DATE: 1998-03-11 | | | |
| ; PRIOR APPLICATION NUMBER: 60/078886 | | | |
| ; PRIOR FILING DATE: 1998-03-20 | | | |
| ; PRIOR APPLICATION NUMBER: 60/078939 | | | |
| ; PRIOR FILING DATE: 1998-03-20 | | | |
| ; PRIOR APPLICATION NUMBER: 60/079664 | | | |
| ; PRIOR FILING DATE: 1998-03-27 | | | |
| ; PRIOR APPLICATION NUMBER: 60/079786 | | | |
| ; PRIOR FILING DATE: 1998-03-27 | | | |
| ; PRIOR APPLICATION NUMBER: 60/080107 | | | |
| ; PRIOR FILING DATE: 1998-03-31 | | | |
| ; PRIOR APPLICATION NUMBER: 60/080194 | | | |
| ; PRIOR FILING DATE: 1998-03-31 | | | |
| ; PRIOR APPLICATION NUMBER: 60/080327 | | | |
| ; PRIOR FILING DATE: 1998-04-01 | | | |
| ; PRIOR APPLICATION NUMBER: 60/080333 | | | |
| ; PRIOR FILING DATE: 1998-04-01 | | | |
| ; PRIOR APPLICATION NUMBER: 60/081049 | | | |
| ; PRIOR FILING DATE: 1998-04-08 | | | |
| ; PRIOR APPLICATION NUMBER: 60/081070 | | | |
| ; PRIOR FILING DATE: 1998-04-08 | | | |
| ; PRIOR APPLICATION NUMBER: 60/081195 | | | |
| ; PRIOR FILING DATE: 1998-04-09 | | | |
| ; PRIOR APPLICATION NUMBER: 60/081838 | | | |
| ; PRIOR FILING DATE: 1998-04-15 | | | |
| ; PRIOR APPLICATION NUMBER: 60/082568 | | | |
| ; PRIOR FILING DATE: 1998-04-21 | | | |
| ; PRIOR APPLICATION NUMBER: 60/082569 | | | |
| ; PRIOR FILING DATE: 1998-04-21 | | | |
| ; PRIOR APPLICATION NUMBER: 60/082704 | | | |
| ; PRIOR FILING DATE: 1998-04-22 | | | |
| ; PRIOR APPLICATION NUMBER: 60/082797 | | | |
| ; PRIOR FILING DATE: 1998-04-22 | | | |
| ; PRIOR APPLICATION NUMBER: 60/083322 | | | |
| ; PRIOR FILING DATE: 1998-04-28 | | | |
| ; PRIOR APPLICATION NUMBER: 60/083495 | | | |
| ; PRIOR FILING DATE: 1998-04-29 | | | |
| ; PRIOR APPLICATION NUMBER: 60/083496 | | | |
| ; PRIOR FILING DATE: 1998-04-29 | | | |
| ; PRIOR APPLICATION NUMBER: 60/083499 | | | |
| ; PRIOR FILING DATE: 1998-04-29 | | | |
| ; PRIOR APPLICATION NUMBER: 60/083559 | | | |
| ; PRIOR FILING DATE: 1998-04-29 | | | |
| ; PRIOR APPLICATION NUMBER: 60/084366 | | | |
| ; PRIOR FILING DATE: 1998-05-05 | | | |
| ; PRIOR APPLICATION NUMBER: 60/084414 | | | |
| ; PRIOR FILING DATE: 1998-05-06 | | | |
| ; PRIOR APPLICATION NUMBER: 60/084639 | | | |
| ; PRIOR FILING DATE: 1998-05-07 | | | |
| ; PRIOR APPLICATION NUMBER: 60/084640 | | | |
| ; PRIOR FILING DATE: 1998-05-07 | | | |
| ; PRIOR APPLICATION NUMBER: 60/084643 | | | |
| ; PRIOR FILING DATE: 1998-05-07 | | | |
| ; PRIOR APPLICATION NUMBER: 60/085573 | | | |
| ; PRIOR FILING DATE: 1998-05-15 | | | |
| ; PRIOR APPLICATION NUMBER: 60/085579 | | | |
| ; PRIOR FILING DATE: 1998-05-15 | | | |
| ; PRIOR APPLICATION NUMBER: 60/085580 | | | |
| ; PRIOR FILING DATE: 1998-05-15 | | | |
| ; PRIOR APPLICATION NUMBER: 60/085582 | | | |
| ; PRIOR FILING DATE: 1998-05-15 | | | |
| ; PRIOR APPLICATION NUMBER: 60/085700 | | | |
| ; PRIOR FILING DATE: 1998-05-15 | | | |
| ; PRIOR APPLICATION NUMBER: 60/086023 | | | |
| ; PRIOR FILING DATE: 1998-05-18 | | | |
| ; PRIOR APPLICATION NUMBER: 60/086392 | | | |
| ; PRIOR FILING DATE: 1998-05-22 | | | |
| ; PRIOR APPLICATION NUMBER: 60/086486 | | | |
| ; PRIOR FILING DATE: 1997-12-18 | | | |


```
; FILE REFERENCE: P3430R1C76
; CURRENT APPLICATION NUMBER: US/10/176,749
; CURRENT FILING DATE: 2002-06-20
; Prior application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 34
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-176-749-34

Query Match      35.5%; Score 150; DB 14; Length 440;
Best Local Similarity 100.0%; Pred. No. 1.1e-125;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 16 SAAALPTGQNLFTKDVTVIEGEVATISQVKNKSDSVIQLLNPNRQTIYFRDRPLK 75
Db 32 SAAALPTGQNLFTKDVTVIEGEVATISQVKNKSDSVIQLLNPNRQTIYFRDRPLK 91

QY 76 DSRFQLNFSSSELKVLSTNVISDEGRYFCQLYTDPQESYTTITVLVPPRNLMDIQK 135
Db 92 DSRFQLNFSSSELKVLSTNVISDEGRYFCQLYTDPQESYTTITVLVPPRNLMDIQK 151

QY 136 DTAVEGEEIEVNCVTAMASKPATIRWFKGN 165
Db 152 DTAVEGEEIEVNCVTAMASKPATIRWFKGN 181

RESULT 42
US-10-176-914-34
; Sequence 34, Application US/10176914
; Publication No. US20030017543A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Zhang, Zemin
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C76
; CURRENT APPLICATION NUMBER: US/10/176,914
; CURRENT FILING DATE: 2002-06-20
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 34
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-176-914-34

Query Match      35.5%; Score 150; DB 14; Length 440;
Best Local Similarity 100.0%; Pred. No. 1.1e-125;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 16 SAAALPTGQNLFTKDVTVIEGEVATISQVKNKSDSVIQLLNPNRQTIYFRDRPLK 75
Db 32 SAAALPTGQNLFTKDVTVIEGEVATISQVKNKSDSVIQLLNPNRQTIYFRDRPLK 91

QY 76 DSRFQLNFSSSELKVLSTNVISDEGRYFCQLYTDPQESYTTITVLVPPRNLMDIQK 135
Db 92 DSRFQLNFSSSELKVLSTNVISDEGRYFCQLYTDPQESYTTITVLVPPRNLMDIQK 151

QY 136 DTAVEGEEIEVNCVTAMASKPATIRWFKGN 165
Db 152 DTAVEGEEIEVNCVTAMASKPATIRWFKGN 181

RESULT 43
US-10-176-915-34
; Sequence 34, Application US/10176915
; Publication No. US20030017544A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C110
; CURRENT APPLICATION NUMBER: US/10/176,915
; CURRENT FILING DATE: 2002-06-21
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 34
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-176-915-34

Query Match      35.5%; Score 150; DB 14; Length 440;
Best Local Similarity 100.0%; Pred. No. 1.1e-125;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 16 SAAALPTGQNLFTKDVTVIEGEVATISQVKNKSDSVIQLLNPNRQTIYFRDRPLK 75
Db 32 SAAALPTGQNLFTKDVTVIEGEVATISQVKNKSDSVIQLLNPNRQTIYFRDRPLK 91

QY 76 DSRFQLNFSSSELKVLSTNVISDEGRYFCQLYTDPQESYTTITVLVPPRNLMDIQK 135
Db 92 DSRFQLNFSSSELKVLSTNVISDEGRYFCQLYTDPQESYTTITVLVPPRNLMDIQK 151

QY 136 DTAVEGEEIEVNCVTAMASKPATIRWFKGN 165
Db 152 DTAVEGEEIEVNCVTAMASKPATIRWFKGN 181

RESULT 44
US-10-173-706-34
; Sequence 34, Application US/10173706
; Publication No. US20030022293A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C7
; CURRENT APPLICATION NUMBER: US/10/173,706
; CURRENT FILING DATE: 2002-06-17
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 34
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-173-706-34
```



```
; ORGANISM: Homo Sapien
US-10-173-706-34
Query Match      35.5%; Score 150; DB 14; Length 440;
Best Local Similarity 100.0%; Pred. No. 1.1e-125;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 16 SAAALPTGQNLFTKDVTVIEGVATISCVNKNKSDSVIQLNPNRQTIYFRDPRPLK 75
Db 32 SAAALPTGQNLFTKDVTVIEGVATISCVNKNKSDSVIQLNPNRQTIYFRDPRPLK 91
Qy 76 DSRFQLNFSSELKVSILTNVSIISDEGRYFCQLYTDPQESYTTITVLVPPRLMIDIQK 135
Db 92 DSRFQLNFSSELKVSILTNVSIISDEGRYFCQLYTDPQESYTTITVLVPPRLMIDIQK 151
Qy 136 DTAVEGEIEVNCCTAMASKPATIRWFKN 165
Db 152 DTAVEGEIEVNCCTAMASKPATIRWFKN 181

RESULT 45
US-10-175-738-34
; Sequence 34, Application US/10175738
; Publication No. US2003002294A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C45
; CURRENT FILING DATE: 2002-06-19
; Prior application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 34
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-175-738-34
Query Match      35.5%; Score 150; DB 14; Length 440;
Best Local Similarity 100.0%; Pred. No. 1.1e-125;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 16 SAAALPTGQNLFTKDVTVIEGVATISCVNKNKSDSVIQLNPNRQTIYFRDPRPLK 75
Db 32 SAAALPTGQNLFTKDVTVIEGVATISCVNKNKSDSVIQLNPNRQTIYFRDPRPLK 91
Qy 76 DSRFQLNFSSELKVSILTNVSIISDEGRYFCQLYTDPQESYTTITVLVPPRLMIDIQK 135
Db 92 DSRFQLNFSSELKVSILTNVSIISDEGRYFCQLYTDPQESYTTITVLVPPRLMIDIQK 151
Qy 136 DTAVEGEIEVNCCTAMASKPATIRWFKN 165
Db 152 DTAVEGEIEVNCCTAMASKPATIRWFKN 181

RESULT 46
US-10-175-752-34
; Sequence 34, Application US/10175752
; Publication No. US2003002295A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C70
; CURRENT FILING DATE: 2002-06-20
; Prior application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 34
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-176-482-34
; Sequence 34, Application US/10176482
; Publication No. US2003002296A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C70
; CURRENT FILING DATE: 2002-06-20
; Prior application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 34
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-176-482-34
Query Match      35.5%; Score 150; DB 14; Length 440;
Best Local Similarity 100.0%; Pred. No. 1.1e-125;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 16 SAAALPTGQNLFTKDVTVIEGVATISCVNKNKSDSVIQLNPNRQTIYFRDPRPLK 75
Db 32 SAAALPTGQNLFTKDVTVIEGVATISCVNKNKSDSVIQLNPNRQTIYFRDPRPLK 91
Qy 76 DSRFQLNFSSELKVSILTNVSIISDEGRYFCQLYTDPQESYTTITVLVPPRLMIDIQK 135
Db 92 DSRFQLNFSSELKVSILTNVSIISDEGRYFCQLYTDPQESYTTITVLVPPRLMIDIQK 151
Qy 136 DTAVEGEIEVNCCTAMASKPATIRWFKN 165
Db 152 DTAVEGEIEVNCCTAMASKPATIRWFKN 181

RESULT 47
US-10-176-482-34
; Sequence 34, Application US/10176482
; Publication No. US2003002296A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C70
; CURRENT FILING DATE: 2002-06-20
; Prior application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 34
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-176-482-34
Query Match      35.5%; Score 150; DB 14; Length 440;
Best Local Similarity 100.0%; Pred. No. 1.1e-125;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 16 SAAALPTGQNLFTKDVTVIEGVATISCVNKNKSDSVIQLNPNRQTIYFRDPRPLK 75
Db 32 SAAALPTGQNLFTKDVTVIEGVATISCVNKNKSDSVIQLNPNRQTIYFRDPRPLK 91
Qy 76 DSRFQLNFSSELKVSILTNVSIISDEGRYFCQLYTDPQESYTTITVLVPPRLMIDIQK 135
Db 92 DSRFQLNFSSELKVSILTNVSIISDEGRYFCQLYTDPQESYTTITVLVPPRLMIDIQK 151
Qy 136 DTAVEGEIEVNCCTAMASKPATIRWFKN 165
Db 152 DTAVEGEIEVNCCTAMASKPATIRWFKN 181
```

Db 32 SAAALPTGQNLFTKDVTVIEGEVATISCVNKSDDSVIQLNPNRQTIYFRDRPLK 91
Qy 76 DSRFQLNFFSSSELKVSLSNVSISDEGRYFCQLYTDPPOESYTTITVLVPPRNLMDIOK 135
Db 92 DSRFQLNFFSSSELKVSLSNVSISDEGRYFCQLYTDPPOESYTTITVLVPPRNLMDIOK 151
Qy 136 DTAVEGEEIEVNCNTAMASKPATIRWFKGN 165
Db 152 DTAVEGEEIEVNCNTAMASKPATIRWFKGN 181

RESULT 48

US-10-176-757-34
; Sequence 34, Application US/10176757
; Publication No. US20030022297A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C86
; CURRENT APPLICATION NUMBER: US/10/176,757
; CURRENT FILING DATE: 2002-06-20
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 34
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-176-757-34

Query Match 35.5%; Score 150; DB 14; Length 440;
Best Local Similarity 100.0%; Pred. No. 1.1e-125;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 16 SAAALPTGQNLFTKDVTVIEGEVATISCVNKSDDSVIQLNPNRQTIYFRDRPLK 75
Db 32 SAAALPTGQNLFTKDVTVIEGEVATISCVNKSDDSVIQLNPNRQTIYFRDRPLK 91
Qy 76 DSRFQLNFFSSSELKVSLSNVSISDEGRYFCQLYTDPPOESYTTITVLVPPRNLMDIOK 135
Db 92 DSRFQLNFFSSSELKVSLSNVSISDEGRYFCQLYTDPPOESYTTITVLVPPRNLMDIOK 151
Qy 136 DTAVEGEEIEVNCNTAMASKPATIRWFKGN 165
Db 152 DTAVEGEEIEVNCNTAMASKPATIRWFKGN 181

RESULT 49

US-10-176-913-34
; Sequence 34, Application US/10176913
; Publication No. US20030022298A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.

; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C66
; CURRENT APPLICATION NUMBER: US/10/176,913
; CURRENT FILING DATE: 2002-06-20
; Prior Application removed - See file wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 34
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-176-913-34

Query Match 35.5%; Score 150; DB 14; Length 440;
Best Local Similarity 100.0%; Pred. No. 1.1e-125;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 16 SAAALPTGQNLFTKDVTVIEGEVATISCVNKSDDSVIQLNPNRQTIYFRDRPLK 75
Db 32 SAAALPTGQNLFTKDVTVIEGEVATISCVNKSDDSVIQLNPNRQTIYFRDRPLK 91
Qy 76 DSRFQLNFFSSSELKVSLSNVSISDEGRYFCQLYTDPPOESYTTITVLVPPRNLMDIOK 135
Db 92 DSRFQLNFFSSSELKVSLSNVSISDEGRYFCQLYTDPPOESYTTITVLVPPRNLMDIOK 151
Qy 136 DTAVEGEEIEVNCNTAMASKPATIRWFKGN 165
Db 152 DTAVEGEEIEVNCNTAMASKPATIRWFKGN 181

RESULT 50

US-10-180-552-34
; Sequence 34, Application US/10180552
; Publication No. US20030022300A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C153
; CURRENT APPLICATION NUMBER: US/10/180,552
; CURRENT FILING DATE: 2002-06-25
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 34
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-180-552-34

Query Match 35.5%; Score 150; DB 14; Length 440;
Best Local Similarity 100.0%; Pred. No. 1.1e-125;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 16 SAAALPTGQNLFTKDVTVIEGEVATISCVNKSDDSVIQLNPNRQTIYFRDRPLK 75
Db 32 SAAALPTGQNLFTKDVTVIEGEVATISCVNKSDDSVIQLNPNRQTIYFRDRPLK 91
Qy 76 DSRFQLNFFSSSELKVSLSNVSISDEGRYFCQLYTDPPOESYTTITVLVPPRNLMDIOK 135
Db 92 DSRFQLNFFSSSELKVSLSNVSISDEGRYFCQLYTDPPOESYTTITVLVPPRNLMDIOK 151
Qy 136 DTAVEGEEIEVNCNTAMASKPATIRWFKGN 165

```
Db 152 DTAVEGEEIEVNCCTAMASKPATTIRWPKGN 181
|||||
RESULT 51
US-10-180-557-34
; Sequence 34, Application US/10180557
; Publication No. US20030022301A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C147
; CURRENT FILING DATE: 2002-06-25
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 34
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-180-557-34
Query Match 35.5%; Score 150; DB 14; Length 440;
Best Local Similarity 100.0%; Pred. No. 1.1e-125;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 16 SAAALPTGQNLFTKDVTVIEGEVATISQVKNKSDSVIQLNPNRQTIYFRDPRPLK 75
Db 32 SAAALPTGQNLFTKDVTVIEGEVATISQVKNKSDSVIQLNPNRQTIYFRDPRPLK 91
Qy 76 DSRFQLNFSSELKVSLSITNVSISDEGRYFCQLYTDPQESYTTITVLVPPRNLMDIOK 135
Db 92 DSRFQLNFSSELKVSLSITNVSISDEGRYFCQLYTDPQESYTTITVLVPPRNLMDIOK 151
Qy 136 DTAVEGEEIEVNCCTAMASKPATTIRWPKGN 165
Db 152 DTAVEGEEIEVNCCTAMASKPATTIRWPKGN 181
|||||
RESULT 52
US-10-173-700-34
; Sequence 34, Application US/10173700
; Publication No. US2003002262A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C14
; CURRENT FILING DATE: 2002-06-17
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 34
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-173-700-34
Query Match 35.5%; Score 150; DB 14; Length 440;
Best Local Similarity 100.0%; Pred. No. 1.1e-125;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 16 SAAALPTGQNLFTKDVTVIEGEVATISQVKNKSDSVIQLNPNRQTIYFRDPRPLK 75
Db 32 SAAALPTGQNLFTKDVTVIEGEVATISQVKNKSDSVIQLNPNRQTIYFRDPRPLK 91
Qy 76 DSRFQLNFSSELKVSLSITNVSISDEGRYFCQLYTDPQESYTTITVLVPPRNLMDIOK 135
Db 92 DSRFQLNFSSELKVSLSITNVSISDEGRYFCQLYTDPQESYTTITVLVPPRNLMDIOK 151
Qy 136 DTAVEGEEIEVNCCTAMASKPATTIRWPKGN 165
Db 152 DTAVEGEEIEVNCCTAMASKPATTIRWPKGN 181
|||||
RESULT 53
US-10-174-572-34
; Sequence 34, Application US/10174572
; Publication No. US20030027263A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C40
; CURRENT FILING DATE: 2002-06-18
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 34
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-174-572-34
Query Match 35.5%; Score 150; DB 14; Length 440;
Best Local Similarity 100.0%; Pred. No. 1.1e-125;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 16 SAAALPTGQNLFTKDVTVIEGEVATISQVKNKSDSVIQLNPNRQTIYFRDPRPLK 75
Db 32 SAAALPTGQNLFTKDVTVIEGEVATISQVKNKSDSVIQLNPNRQTIYFRDPRPLK 91
Qy 76 DSRFQLNFSSELKVSLSITNVSISDEGRYFCQLYTDPQESYTTITVLVPPRNLMDIOK 135
Db 92 DSRFQLNFSSELKVSLSITNVSISDEGRYFCQLYTDPQESYTTITVLVPPRNLMDIOK 151
Qy 136 DTAVEGEEIEVNCCTAMASKPATTIRWPKGN 165
Db 152 DTAVEGEEIEVNCCTAMASKPATTIRWPKGN 181
|||||
RESULT 54
US-10-174-579-34
; Sequence 34, Application US/10174579
; Publication No. US20030027264A1
|||||
```

```
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C31
; CURRENT APPLICATION NUMBER: US/10/174,579
; CURRENT FILING DATE: 2002-06-18
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 34
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-174-579-34

Query Match      35.5%; Score 150; DB 14; Length 440;
Best Local Similarity 100.0%; Pred. No. 1.1e-125;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 16 SAAALPTGQNLFTKDVTVIEGEVATISCVQNKSDSDSVIQLLNPNRQTIYFRDPRPLK 75
Db 32 SAAALPTGQNLFTKDVTVIEGEVATISCVQNKSDSDSVIQLLNPNRQTIYFRDPRPLK 91
Qy 76 DSRFQLNFFSSSELKVSLLTVNSISDEGRYFCQLYTDPPOESYTTITVLVPPRNLMDIOK 135
Db 92 DSRFQLNFFSSSELKVSLLTVNSISDEGRYFCQLYTDPPOESYTTITVLVPPRNLMDIOK 151
Qy 136 DTAVEGEEIEVNCTAMASKPATIRWFKGN 165
Db 152 DTAVEGEEIEVNCTAMASKPATIRWFKGN 181

RESULT 55
US-10-174-582-34
; Sequence 34, Application US/10174582
; Publication No. US20030027265A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C36
; CURRENT APPLICATION NUMBER: US/10/174,582
; CURRENT FILING DATE: 2002-06-18
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 34
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-174-582-34

Query Match      35.5%; Score 150; DB 14; Length 440;
Best Local Similarity 100.0%; Pred. No. 1.1e-125;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 16 SAAALPTGQNLFTKDVTVIEGEVATISCVQNKSDSDSVIQLLNPNRQTIYFRDPRPLK 75
Db 32 SAAALPTGQNLFTKDVTVIEGEVATISCVQNKSDSDSVIQLLNPNRQTIYFRDPRPLK 91
Qy 76 DSRFQLNFFSSSELKVSLLTVNSISDEGRYFCQLYTDPPOESYTTITVLVPPRNLMDIOK 135
Db 92 DSRFQLNFFSSSELKVSLLTVNSISDEGRYFCQLYTDPPOESYTTITVLVPPRNLMDIOK 151
Qy 136 DTAVEGEEIEVNCTAMASKPATIRWFKGN 165
Db 152 DTAVEGEEIEVNCTAMASKPATIRWFKGN 181

RESULT 56
US-10-174-588-34
; Sequence 34, Application US/10174588
; Publication No. US20030027266A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C28
; CURRENT APPLICATION NUMBER: US/10/174,588
; CURRENT FILING DATE: 2002-06-18
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 34
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-174-588-34

Query Match      35.5%; Score 150; DB 14; Length 440;
Best Local Similarity 100.0%; Pred. No. 1.1e-125;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 16 SAAALPTGQNLFTKDVTVIEGEVATISCVQNKSDSDSVIQLLNPNRQTIYFRDPRPLK 75
Db 32 SAAALPTGQNLFTKDVTVIEGEVATISCVQNKSDSDSVIQLLNPNRQTIYFRDPRPLK 91
Qy 76 DSRFQLNFFSSSELKVSLLTVNSISDEGRYFCQLYTDPPOESYTTITVLVPPRNLMDIOK 135
Db 92 DSRFQLNFFSSSELKVSLLTVNSISDEGRYFCQLYTDPPOESYTTITVLVPPRNLMDIOK 151
Qy 136 DTAVEGEEIEVNCTAMASKPATIRWFKGN 165
Db 152 DTAVEGEEIEVNCTAMASKPATIRWFKGN 181

RESULT 57
US-10-175-739-34
; Sequence 34, Application US/10175739
; Publication No. US20030027267A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
```

APPLICANT: Smith,Victoria
APPLICANT: Watanabe,Colin K.
APPLICANT: Wood,William I.
APPLICANT: Zhang,Zemin
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
FILE REFERENCE: P3430R1C46
CURRENT APPLICATION NUMBER: US/10/175,739
CURRENT FILING DATE: 2002-06-19
Prior Application removed - See File Wrapper or Palm
NUMBER OF SEQ ID NOS: 612
SEQ ID NO 34
LENGTH: 440
TYPE: PRT
ORGANISM: Homo Sapien
US-10-175-739-34

Query Match 35.5%; Score 150; DB 14; Length 440;
Best Local Similarity 100.0%; Pred. No. 1.1e-125;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 16 SAALIPGTGQNLFTKDVTVIEGEVATISQVKNKSDSVIQLNPNRQTIYFRDPRPLK 75
|
Db 32 SAALIPGTGQNLFTKDVTVIEGEVATISQVKNKSDSVIQLNPNRQTIYFRDPRPLK 91
|
Qy 76 DSRFQLNFSSELKVSITNVSISDEGRYFCQLYTDPQESSYTTITVLVPPRNLMDIQK 135
|
Db 92 DSRFQLNFSSELKVSITNVSISDEGRYFCQLYTDPQESSYTTITVLVPPRNLMDIQK 151
|
Qy 136 DTAVEGEIEVNCVTAMASKPATIRWPKGN 165
|
Db 152 DTAVEGEIEVNCVTAMASKPATIRWPKGN 181
|

RESULT 58
US-10-175-740-34
Sequence 34, Application US/10175740
Publication No. US20030027268A1
GENERAL INFORMATION:
APPLICANT: Baker, Kevin P.
APPLICANT: Chen, Jian
APPLICANT: Desnoyers, Luc
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Gurney, Austin L.
APPLICANT: Pan, James
APPLICANT: Smith, Victoria
APPLICANT: Watanabe, Colin K.
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
FILE REFERENCE: P3430R1C52
CURRENT APPLICATION NUMBER: US/10/175,743
CURRENT FILING DATE: 2002-06-16
PRIOR APPLICATION NUMBER: 10/052586
PRIOR FILING DATE: 2002-01-15
PRIOR APPLICATION NUMBER: 60/059263
PRIOR FILING DATE: 1997-09-18
PRIOR APPLICATION NUMBER: 60/059266
PRIOR FILING DATE: 1997-09-18
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/063120
PRIOR FILING DATE: 1997-10-24
PRIOR APPLICATION NUMBER: 60/063121
PRIOR FILING DATE: 1997-10-24
PRIOR APPLICATION NUMBER: 60/063486
PRIOR FILING DATE: 1997-10-21
PRIOR APPLICATION NUMBER: 60/063540
PRIOR FILING DATE: 1997-10-28
PRIOR APPLICATION NUMBER: 60/063541
PRIOR FILING DATE: 1997-10-28
PRIOR APPLICATION NUMBER: 60/063544
PRIOR FILING DATE: 1997-10-28
PRIOR APPLICATION NUMBER: 60/063564
PRIOR FILING DATE: 1997-10-28
PRIOR APPLICATION NUMBER: 60/063734
PRIOR FILING DATE: 1997-10-29
PRIOR APPLICATION NUMBER: 60/063870
PRIOR FILING DATE: 1997-10-31
PRIOR APPLICATION NUMBER: 60/064103
PRIOR FILING DATE: 1997-10-31
PRIOR APPLICATION NUMBER: 60/065311
PRIOR FILING DATE: 1997-11-13
PRIOR APPLICATION NUMBER: 60/066120
PRIOR FILING DATE: 1997-11-21
PRIOR APPLICATION NUMBER: 60/066466
PRIOR FILING DATE: 1997-11-24
PRIOR APPLICATION NUMBER: 60/066772
PRIOR FILING DATE: 1997-11-24
PRIOR APPLICATION NUMBER: 60/069335
PRIOR FILING DATE: 1997-12-11
PRIOR APPLICATION NUMBER: 60/069425
PRIOR FILING DATE: 1997-12-12
PRIOR APPLICATION NUMBER: 60/069870
PRIOR FILING DATE: 1997-12-17
PRIOR APPLICATION NUMBER: 60/068017
PRIOR FILING DATE: 1997-12-18
PRIOR APPLICATION NUMBER: 60/077450

APPLICANT: Smith,Victoria
APPLICANT: Watanabe,Colin K.
APPLICANT: Wood,William I.
APPLICANT: Zhang,Zemin
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
FILE REFERENCE: P3430R1C46
CURRENT APPLICATION NUMBER: US/10/175,739
CURRENT FILING DATE: 2002-06-19
Prior Application removed - See File Wrapper or Palm
NUMBER OF SEQ ID NOS: 612
SEQ ID NO 34
LENGTH: 440
TYPE: PRT
ORGANISM: Homo Sapien
US-10-175-740-34

Query Match 35.5%; Score 150; DB 14; Length 440;
Best Local Similarity 100.0%; Pred. No. 1.1e-125;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 16 SAALIPGTGQNLFTKDVTVIEGEVATISQVKNKSDSVIQLNPNRQTIYFRDPRPLK 75
|
Db 32 SAALIPGTGQNLFTKDVTVIEGEVATISQVKNKSDSVIQLNPNRQTIYFRDPRPLK 91
|
Qy 76 DSRFQLNFSSELKVSITNVSISDEGRYFCQLYTDPQESSYTTITVLVPPRNLMDIQK 135
|
Db 92 DSRFQLNFSSELKVSITNVSISDEGRYFCQLYTDPQESSYTTITVLVPPRNLMDIQK 151
|
Qy 136 DTAVEGEIEVNCVTAMASKPATIRWPKGN 165
|
Db 152 DTAVEGEIEVNCVTAMASKPATIRWPKGN 181
|

Db 92 DSRFQLNFSSSELKSLTNVTSIDSGRYFCQLYTDPQESYTTITVLVPPRNLMDIOK 151
Qy 136 DTAVEGEEIEVNCMTAMASKPATIRWFKGN 165
Db 152 DTAVEGEEIEVNCMTAMASKPATIRWFKGN 181

RESULT 60

US-10-176-488-34
; Sequence 34, Application US/10176488
; Publication No. US2003002727A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C119
; CURRENT APPLICATION NUMBER: US/10/176,488
; CURRENT FILING DATE: 2002-06-21
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 34
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-176-488-34

Query Match 35.5%; Score 150; DB 14; Length 440;
Best Local Similarity 100.0%; Pred. No. 1.1e-125;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 16 SAAALPTGQNLFTKDVTVIEGEVATISCVQNKSDSVIQLLNPNRQTIYFRDPRPLK 75
Db 32 SAAALPTGQNLFTKDVTVIEGEVATISCVQNKSDSVIQLLNPNRQTIYFRDPRPLK 91
Qy 76 DSRFQLNFSSSELKSLTNVTSIDSGRYFCQLYTDPQESYTTITVLVPPRNLMDIOK 135
Db 92 DSRFQLNFSSSELKSLTNVTSIDSGRYFCQLYTDPQESYTTITVLVPPRNLMDIOK 151
Qy 136 DTAVEGEEIEVNCMTAMASKPATIRWFKGN 165
Db 152 DTAVEGEEIEVNCMTAMASKPATIRWFKGN 181

RESULT 61

US-10-176-492-34
; Sequence 34, Application US/10176492
; Publication No. US2003002727A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C107

; CURRENT APPLICATION NUMBER: US/10/176,492
; CURRENT FILING DATE: 2002-06-21
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 34
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-176-492-34

Query Match 35.5%; Score 150; DB 14; Length 440;
Best Local Similarity 100.0%; Pred. No. 1.1e-125;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 16 SAAALPTGQNLFTKDVTVIEGEVATISCVQNKSDSVIQLLNPNRQTIYFRDPRPLK 75
Db 32 SAAALPTGQNLFTKDVTVIEGEVATISCVQNKSDSVIQLLNPNRQTIYFRDPRPLK 91
Qy 76 DSRFQLNFSSSELKSLTNVTSIDSGRYFCQLYTDPQESYTTITVLVPPRNLMDIOK 135
Db 92 DSRFQLNFSSSELKSLTNVTSIDSGRYFCQLYTDPQESYTTITVLVPPRNLMDIOK 151
Qy 136 DTAVEGEEIEVNCMTAMASKPATIRWFKGN 165
Db 152 DTAVEGEEIEVNCMTAMASKPATIRWFKGN 181

RESULT 62

US-10-176-747-34
; Sequence 34, Application US/10176747
; Publication No. US2003002727A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C92
; CURRENT APPLICATION NUMBER: US/10/176,747
; CURRENT FILING DATE: 2002-06-20
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 34
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-176-747-34

Query Match 35.5%; Score 150; DB 14; Length 440;
Best Local Similarity 100.0%; Pred. No. 1.1e-125;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 16 SAAALPTGQNLFTKDVTVIEGEVATISCVQNKSDSVIQLLNPNRQTIYFRDPRPLK 75
Db 32 SAAALPTGQNLFTKDVTVIEGEVATISCVQNKSDSVIQLLNPNRQTIYFRDPRPLK 91
Qy 76 DSRFQLNFSSSELKSLTNVTSIDSGRYFCQLYTDPQESYTTITVLVPPRNLMDIOK 135
Db 92 DSRFQLNFSSSELKSLTNVTSIDSGRYFCQLYTDPQESYTTITVLVPPRNLMDIOK 151
Qy 136 DTAVEGEEIEVNCMTAMASKPATIRWFKGN 165
Db 152 DTAVEGEEIEVNCMTAMASKPATIRWFKGN 181

```
RESULT 63
US-10-176-750-34
; Sequence 34, Application US/10176750
; Publication No. US20030027274A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C103
; CURRENT APPLICATION NUMBER: US/10/176,750
; CURRENT FILING DATE: 2002-06-21
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 34
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-176-750-34

Query Match      35.5%; Score 150; DB 14; Length 440;
Best Local Similarity 100.0%; Pred. No. 1.1e-125;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 16 SAAALPTGGQNLFTKDVTVIEGEVATISCVNKSDDSVIQLNPNRQTIYFRDPRPLK 75
Db 32 SAAALPTGGQNLFTKDVTVIEGEVATISCVNKSDDSVIQLNPNRQTIYFRDPRPLK 91
QY 76 DSRFQLNFSSELKVLSTNVSISDEGRYFCQLYTDPQESYTTITVLVPPRNLMDIOK 135
Db 92 DSRFQLNFSSELKVLSTNVSISDEGRYFCQLYTDPQESYTTITVLVPPRNLMDIOK 151
QY 136 DTAVEGEIEVNCVTAMASKPATIRWFKGN 165
Db 152 DTAVEGEIEVNCVTAMASKPATIRWFKGN 181

RESULT 64
US-10-176-985-34
; Sequence 34, Application US/10176985
; Publication No. US20030027277A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C99
; CURRENT APPLICATION NUMBER: US/10/176,985
; CURRENT FILING DATE: 2002-06-21
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 34
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-176-985-34

Query Match      35.5%; Score 150; DB 14; Length 440;
Best Local Similarity 100.0%; Pred. No. 1.1e-125;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 16 SAAALPTGGQNLFTKDVTVIEGEVATISCVNKSDDSVIQLNPNRQTIYFRDPRPLK 75
Db 32 SAAALPTGGQNLFTKDVTVIEGEVATISCVNKSDDSVIQLNPNRQTIYFRDPRPLK 91
QY 76 DSRFQLNFSSELKVLSTNVSISDEGRYFCQLYTDPQESYTTITVLVPPRNLMDIOK 135
Db 92 DSRFQLNFSSELKVLSTNVSISDEGRYFCQLYTDPQESYTTITVLVPPRNLMDIOK 151
QY 136 DTAVEGEIEVNCVTAMASKPATIRWFKGN 165
Db 152 DTAVEGEIEVNCVTAMASKPATIRWFKGN 181

RESULT 65
US-10-176-987-34
; Sequence 34, Application US/10176987
; Publication No. US20030027278A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C93
; CURRENT APPLICATION NUMBER: US/10/176,987
; CURRENT FILING DATE: 2002-06-21
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 34
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-176-987-34

Query Match      35.5%; Score 150; DB 14; Length 440;
Best Local Similarity 100.0%; Pred. No. 1.1e-125;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 16 SAAALPTGGQNLFTKDVTVIEGEVATISCVNKSDDSVIQLNPNRQTIYFRDPRPLK 75
Db 32 SAAALPTGGQNLFTKDVTVIEGEVATISCVNKSDDSVIQLNPNRQTIYFRDPRPLK 91
QY 76 DSRFQLNFSSELKVLSTNVSISDEGRYFCQLYTDPQESYTTITVLVPPRNLMDIOK 135
Db 92 DSRFQLNFSSELKVLSTNVSISDEGRYFCQLYTDPQESYTTITVLVPPRNLMDIOK 151
QY 136 DTAVEGEIEVNCVTAMASKPATIRWFKGN 165
Db 152 DTAVEGEIEVNCVTAMASKPATIRWFKGN 181

RESULT 66
US-10-176-992-34
; Sequence 34, Application US/10176992
; Publication No. US20030027279A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
```



```
; APPLICANT: Goddard,Audrey
; APPLICANT: Godowski,Paul J.
; APPLICANT: Gurney,Austin L.
; APPLICANT: Pan,James
; APPLICANT: Smith,Victoria
; APPLICANT: Watanabe,Colin K.
; APPLICANT: Wood,William I.
; APPLICANT: Zhang,Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C100
; CURRENT APPLICATION NUMBER: US/10/176,992
; PRIOR APPLICATION REMOVED - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 34
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-176-992-34

Query Match 35.5%; Score 150; DB 14; Length 440;
Best Local Similarity 100.0%; Pred. No. 1.1e-125;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 16 SAALIPGTGQNLFTKDVTVIEGEVATISQVKNKSDSVIQLLNPNRQTIYFRDPRPLK 75
|
Db 32 SAALIPGTGQNLFTKDVTVIEGEVATISQVKNKSDSVIQLLNPNRQTIYFRDPRPLK 91
|
Qy 76 DSRFQLNFFSSSELKVSLSLTNVSISDEGRYFCQLYTDPQSSYTTITVLVPPRNLMIDIQK 135
|
Db 92 DSRFQLNFFSSSELKVSLSLTNVSISDEGRYFCQLYTDPQSSYTTITVLVPPRNLMIDIQK 151
|
Qy 136 DTAVEGEEIEVNCVTAMASKPATIRWFKGN 165
|
Db 152 DTAVEGEEIEVNCVTAMASKPATIRWFKGN 181
|

RESULT 67
US-10-176-993-34
; Sequence 34, Application US/10176993
; Publication No. US20030027280A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C89
; CURRENT APPLICATION NUMBER: US/10/176,993
; CURRENT FILING DATE: 2002-06-20
; PRIOR APPLICATION REMOVED - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 34
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-176-993-34

Query Match 35.5%; Score 150; DB 14; Length 440;
Best Local Similarity 100.0%; Pred. No. 1.1e-125;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 16 SAALIPGTGQNLFTKDVTVIEGEVATISQVKNKSDSVIQLLNPNRQTIYFRDPRPLK 75
|
Db 32 SAALIPGTGQNLFTKDVTVIEGEVATISQVKNKSDSVIQLLNPNRQTIYFRDPRPLK 91
|
Qy 76 DSRFQLNFFSSSELKVSLSLTNVSISDEGRYFCQLYTDPQSSYTTITVLVPPRNLMIDIQK 135
|
Db 92 DSRFQLNFFSSSELKVSLSLTNVSISDEGRYFCQLYTDPQSSYTTITVLVPPRNLMIDIQK 151
|
Qy 136 DTAVEGEEIEVNCVTAMASKPATIRWFKGN 165
|
Db 152 DTAVEGEEIEVNCVTAMASKPATIRWFKGN 181
|

RESULT 69
US-10-176-991-34
; Sequence 34, Application US/10176991
; Publication No. US20030027324A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C89
; CURRENT APPLICATION NUMBER: US/10/176,991
; CURRENT FILING DATE: 2002-06-20
; PRIOR APPLICATION REMOVED - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 34
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-176-991-34

Query Match 35.5%; Score 150; DB 14; Length 440;
Best Local Similarity 100.0%; Pred. No. 1.1e-125;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 16 SAALIPGTGQNLFTKDVTVIEGEVATISQVKNKSDSVIQLLNPNRQTIYFRDPRPLK 75
|
Db 32 SAALIPGTGQNLFTKDVTVIEGEVATISQVKNKSDSVIQLLNPNRQTIYFRDPRPLK 91
|
Qy 76 DSRFQLNFFSSSELKVSLSLTNVSISDEGRYFCQLYTDPQSSYTTITVLVPPRNLMIDIQK 135
|
Db 92 DSRFQLNFFSSSELKVSLSLTNVSISDEGRYFCQLYTDPQSSYTTITVLVPPRNLMIDIQK 151
|
Qy 136 DTAVEGEEIEVNCVTAMASKPATIRWFKGN 165
|
Db 152 DTAVEGEEIEVNCVTAMASKPATIRWFKGN 181
|

RESULT 68
US-10-184-658-34
; Sequence 34, Application US/10184658
; Publication No. US20030027281A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C228
; CURRENT APPLICATION NUMBER: US/10/184,658
; CURRENT FILING DATE: 2002-06-28
; PRIOR APPLICATION REMOVED - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 34
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-184-658-34

Query Match 35.5%; Score 150; DB 14; Length 440;
Best Local Similarity 100.0%; Pred. No. 1.1e-125;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 16 SAALIPGTGQNLFTKDVTVIEGEVATISQVKNKSDSVIQLLNPNRQTIYFRDPRPLK 75
|
Db 32 SAALIPGTGQNLFTKDVTVIEGEVATISQVKNKSDSVIQLLNPNRQTIYFRDPRPLK 91
|
Qy 76 DSRFQLNFFSSSELKVSLSLTNVSISDEGRYFCQLYTDPQSSYTTITVLVPPRNLMIDIQK 135
|
Db 92 DSRFQLNFFSSSELKVSLSLTNVSISDEGRYFCQLYTDPQSSYTTITVLVPPRNLMIDIQK 151
|
Qy 136 DTAVEGEEIEVNCVTAMASKPATIRWFKGN 165
|
Db 152 DTAVEGEEIEVNCVTAMASKPATIRWFKGN 181
|
```

; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: F3430R1C122
; CURRENT APPLICATION NUMBER: US/10/176,991
; CURRENT FILING DATE: 2002-06-21
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 34
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-176-991-34

Query Match 35.5%; Score 150; DB 14; Length 440;
Best Local Similarity 100.0%; Pred. No. 1.1e-125;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 16 SAAALPTGQNLFTKDVTVIEGEVATISCVQKSDSDSVIQLLNPNRQTIYFRDPRPLK 75
Db 32 SAAALPTGQNLFTKDVTVIEGEVATISCVQKSDSDSVIQLLNPNRQTIYFRDPRPLK 91
QY 76 DSRFQLNFSSSELKVLNVSISDEGRYFCQLYTDPPOESYTTITVLVPPRNLMIDIOK 135
Db 92 DSRFQLNFSSSELKVLNVSISDEGRYFCQLYTDPPOESYTTITVLVPPRNLMIDIOK 151
QY 136 DTAVEGEEIEVNCNTAMASKPATIRWFKGN 165
Db 152 DTAVEGEEIEVNCNTAMASKPATIRWFKGN 181

RESULT 70
US-10-173-695-34
; Sequence 34, Application US/10173695
; Publication No. US20030032101A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: F3430R1C3
; CURRENT APPLICATION NUMBER: US/10/173,695
; CURRENT FILING DATE: 2002-06-17
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 34
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-173-695-34

Query Match 35.5%; Score 150; DB 14; Length 440;
Best Local Similarity 100.0%; Pred. No. 1.1e-125;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 16 SAAALPTGQNLFTKDVTVIEGEVATISCVQKSDSDSVIQLLNPNRQTIYFRDPRPLK 75
Db 32 SAAALPTGQNLFTKDVTVIEGEVATISCVQKSDSDSVIQLLNPNRQTIYFRDPRPLK 91
QY 76 DSRFQLNFSSSELKVLNVSISDEGRYFCQLYTDPPOESYTTITVLVPPRNLMIDIOK 135
Db 92 DSRFQLNFSSSELKVLNVSISDEGRYFCQLYTDPPOESYTTITVLVPPRNLMIDIOK 151
QY 136 DTAVEGEEIEVNCNTAMASKPATIRWFKGN 165
Db 152 DTAVEGEEIEVNCNTAMASKPATIRWFKGN 181

Db 152 DTAVEGEEIEVNCNTAMASKPATIRWFKGN 181

RESULT 71
US-10-173-697-34
; Sequence 34, Application US/10173697
; Publication No. US20030032102A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: F3430R1C5
; CURRENT APPLICATION NUMBER: US/10/173,697
; CURRENT FILING DATE: 2002-06-17
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 34
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-173-697-34

Query Match 35.5%; Score 150; DB 14; Length 440;
Best Local Similarity 100.0%; Pred. No. 1.1e-125;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 16 SAAALPTGQNLFTKDVTVIEGEVATISCVQKSDSDSVIQLLNPNRQTIYFRDPRPLK 75
Db 32 SAAALPTGQNLFTKDVTVIEGEVATISCVQKSDSDSVIQLLNPNRQTIYFRDPRPLK 91
QY 76 DSRFQLNFSSSELKVLNVSISDEGRYFCQLYTDPPOESYTTITVLVPPRNLMIDIOK 135
Db 92 DSRFQLNFSSSELKVLNVSISDEGRYFCQLYTDPPOESYTTITVLVPPRNLMIDIOK 151
QY 136 DTAVEGEEIEVNCNTAMASKPATIRWFKGN 165
Db 152 DTAVEGEEIEVNCNTAMASKPATIRWFKGN 181

RESULT 72
US-10-173-705-34
; Sequence 34, Application US/10173705
; Publication No. US20030032103A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: F3430R1C18
; CURRENT APPLICATION NUMBER: US/10/173,705
; CURRENT FILING DATE: 2002-06-17
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 34

```

; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-173-705-34

Query Match
Best Local Similarity 35.5%; Score 150; DB 14; Length 440;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 16 SAALPTGQNLFTKDVTVIEGATISCVNKSDDSVIQLNPNRQTIYFRDPRPLK 75
DB 32 SAALPTGQNLFTKDVTVIEGATISCVNKSDDSVIQLNPNRQTIYFRDPRPLK 91
QY 76 DSRFQLNFSSSELKSLTNVSIISDEGRYFCQLYTDPQESYTTITVLVPPRLMIDIQ 135
DB 92 DSRFQLNFSSSELKSLTNVSIISDEGRYFCQLYTDPQESYTTITVLVPPRLMIDIQ 151
QY 136 DTAVEGEIEVNCCTAMASKPATIRWFKGN 165
DB 152 DTAVEGEIEVNCCTAMASKPATIRWFKGN 181

RESULT 73
US-10-174-576-34
; Sequence 34, Application US/10174576
; Publication No. US20030032104A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C23
; CURRENT APPLICATION NUMBER: US/10/174, 576
; CURRENT FILING DATE: 2002-06-18
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 34
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-174-576-34

Query Match
Best Local Similarity 35.5%; Score 150; DB 14; Length 440;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 16 SAALPTGQNLFTKDVTVIEGATISCVNKSDDSVIQLNPNRQTIYFRDPRPLK 75
DB 32 SAALPTGQNLFTKDVTVIEGATISCVNKSDDSVIQLNPNRQTIYFRDPRPLK 91
QY 76 DSRFQLNFSSSELKSLTNVSIISDEGRYFCQLYTDPQESYTTITVLVPPRLMIDIQ 135
DB 92 DSRFQLNFSSSELKSLTNVSIISDEGRYFCQLYTDPQESYTTITVLVPPRLMIDIQ 151
QY 136 DTAVEGEIEVNCCTAMASKPATIRWFKGN 165
DB 152 DTAVEGEIEVNCCTAMASKPATIRWFKGN 181

RESULT 74
US-10-174-585-34
; Sequence 34, Application US/10174585
; Publication No. US20030032105A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C24
; CURRENT APPLICATION NUMBER: US/10/174, 586
; CURRENT FILING DATE: 2002-06-18
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 34
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-174-585-34

Query Match
Best Local Similarity 35.5%; Score 150; DB 14; Length 440;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 16 SAALPTGQNLFTKDVTVIEGATISCVNKSDDSVIQLNPNRQTIYFRDPRPLK 75
DB 32 SAALPTGQNLFTKDVTVIEGATISCVNKSDDSVIQLNPNRQTIYFRDPRPLK 91
QY 76 DSRFQLNFSSSELKSLTNVSIISDEGRYFCQLYTDPQESYTTITVLVPPRLMIDIQ 135
DB 92 DSRFQLNFSSSELKSLTNVSIISDEGRYFCQLYTDPQESYTTITVLVPPRLMIDIQ 151
QY 136 DTAVEGEIEVNCCTAMASKPATIRWFKGN 165
DB 152 DTAVEGEIEVNCCTAMASKPATIRWFKGN 181

RESULT 75
US-10-174-586-34
; Sequence 34, Application US/10174586
; Publication No. US20030032106A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C24
; CURRENT APPLICATION NUMBER: US/10/174, 586
; CURRENT FILING DATE: 2002-06-18
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 34
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-174-586-34

Query Match
Best Local Similarity 35.5%; Score 150; DB 14; Length 440;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

| | | | |
|----|-----|---|-----|
| Qy | 16 | SAAALPTGDGQNLFTKDVTVIEGEVATISCVNKSDDSVIQLNPNRQTIYFRDPRPLK | 75 |
| Db | 32 | SAAALPTGDGQNLFTKDVTVIEGEVATISCVNKSDDSVIQLNPNRQTIYFRDPRPLK | 91 |
| Qy | 76 | DSRFQLNPFSSSELKVSLTNVSISDEGRYFCQLYTDPPQESYTTITVLVPPRNLMDIOK | 135 |
| Db | 92 | DSRFQLNPFSSSELKVSLTNVSISDEGRYFCQLYTDPPQESYTTITVLVPPRNLMDIOK | 151 |
| Qy | 136 | DTAVEGEIEVNCTAMASKPATTIRWFKGN | 165 |
| Db | 152 | DTAVEGEIEVNCTAMASKPATTIRWFKGN | 181 |

Search completed: June 28, 2005, 10:39:10
Job time : 106.694 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.

OM protein - protein search, using sw model

Run on: June 28, 2005, 10:08:59 ; Search time 29.341 Seconds
(without alignments)
1076.191 Million cell updates/sec

Title: US-10-622-237-4

Perfect score: 423

Sequence: 1 AAPPGLRLRLLLLLLSAAL.....TAIINAEQQGNSEKKEYF 423

Scoring table:

Gapop 60.0 , Gapext 60.0

Searched: 513545 seqs, 74649064 residues

Word size : 0

Total number of hits satisfying chosen parameters: 513545

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 150 summaries

Database :

- 1: /cgn2_6/ptodata/1/iaa/5A COMB.pep.*
- 2: /cgn2_6/ptodata/1/iaa/5B COMB.pep.*
- 3: /cgn2_6/ptodata/1/iaa/6A COMB.pep.*
- 4: /cgn2_6/ptodata/1/iaa/6B COMB.pep.*
- 5: /cgn2_6/ptodata/1/iaa/PCTUS COMB.pep.*
- 6: /cgn2_6/ptodata/1/iaa/backfiles1.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | ID | Description |
|------------|-------|-------------|--------|----|----------------------|
| 1 | 423 | 100.0 | 423 | 4 | US-09-778-510-22 |
| 2 | 150 | 35.5 | 440 | 4 | US-09-866-028-61 |
| 3 | 150 | 35.5 | 440 | 4 | US-09-944-457-61 |
| 4 | 150 | 35.5 | 442 | 4 | US-09-778-510-20 |
| 5 | 150 | 35.5 | 442 | 4 | US-09-930-803-1 |
| 6 | 15 | 3.5 | 41 | 4 | US-09-060-767B-5 |
| 7 | 14 | 3.3 | 130 | 3 | US-08-700-651-9 |
| 8 | 14 | 3.3 | 130 | 3 | US-08-928-361B-14 |
| 9 | 14 | 3.3 | 130 | 4 | US-09-588-995A-14 |
| 10 | 14 | 3.3 | 175 | 3 | US-08-700-651-12 |
| 11 | 14 | 3.3 | 175 | 3 | US-09-928-361B-17 |
| 12 | 14 | 3.3 | 175 | 4 | US-09-588-995A-17 |
| 13 | 14 | 3.3 | 197 | 4 | US-09-248-796A-21069 |
| 14 | 14 | 3.3 | 216 | 3 | US-08-928-361B-8 |
| 15 | 14 | 3.3 | 216 | 3 | US-08-928-361B-27 |
| 16 | 14 | 3.3 | 216 | 4 | US-09-588-995A-8 |
| 17 | 14 | 3.3 | 249 | 3 | US-08-700-651-15 |
| 18 | 14 | 3.3 | 249 | 3 | US-08-928-361B-20 |
| 19 | 14 | 3.3 | 249 | 4 | US-09-588-995A-20 |
| 20 | 14 | 3.3 | 887 | 1 | US-07-867-106-3 |
| 21 | 14 | 3.3 | 1721 | 3 | US-08-700-651-5 |
| 22 | 14 | 3.3 | 1721 | 3 | US-08-928-361B-6 |
| 23 | 14 | 3.3 | 1721 | 4 | US-09-588-995A-6 |
| 24 | 14 | 3.3 | 1837 | 3 | US-08-928-361B-5 |
| 25 | 14 | 3.3 | 1837 | 4 | US-09-588-995A-5 |
| 26 | 13 | 3.1 | 444 | 4 | US-09-205-258-953 |
| 27 | 13 | 3.1 | 57 | 3 | US-08-900-230-59 |
| | | | | | Sequence 22, Appl |
| | | | | | Sequence 61, Appl |
| | | | | | Sequence 61, Appl |
| | | | | | Sequence 20, Appl |
| | | | | | Sequence 1, Appl |
| | | | | | Sequence 5, Appl |
| | | | | | Sequence 9, Appl |
| | | | | | Sequence 14, Appl |
| | | | | | Sequence 14, Appl |
| | | | | | Sequence 12, Appl |
| | | | | | Sequence 17, Appl |
| | | | | | Sequence 17, Appl |
| | | | | | Sequence 17, Appl |
| | | | | | Sequence 21069, A |
| | | | | | Sequence 8, Appl |
| | | | | | Sequence 27, Appl |
| | | | | | Sequence 8, Appl |
| | | | | | Sequence 15, Appl |
| | | | | | Sequence 20, Appl |
| | | | | | Sequence 20, Appl |
| | | | | | Sequence 3, Appl |
| | | | | | Sequence 5, Appl |
| | | | | | Sequence 6, Appl |
| | | | | | Sequence 5, Appl |
| | | | | | Sequence 5, Appl |
| | | | | | Sequence 5, Appl |
| | | | | | Sequence 53, Appl |
| | | | | | Sequence 953, Appl |

| | | | | | | |
|-----|----|-----|------|---|----------------------|-------------------|
| 28 | 13 | 3.1 | 57 | 4 | US-09-060-767B-9 | Sequence 9, Appl |
| 29 | 13 | 3.1 | 63 | 4 | US-09-248-796A-23083 | Sequence 23083, A |
| 30 | 13 | 3.1 | 75 | 4 | US-09-248-796A-25289 | Sequence 25289, A |
| 31 | 13 | 3.1 | 91 | 3 | US-08-700-651-14 | Sequence 14, Appl |
| 32 | 13 | 3.1 | 91 | 3 | US-08-928-361B-19 | Sequence 19, Appl |
| 33 | 13 | 3.1 | 91 | 4 | US-09-588-995A-19 | Sequence 19, Appl |
| 34 | 13 | 3.1 | 106 | 4 | US-09-270-767-36192 | Sequence 36192, A |
| 35 | 13 | 3.1 | 106 | 4 | US-09-270-767-51409 | Sequence 51409, A |
| 36 | 13 | 3.1 | 124 | 3 | US-08-700-651-11 | Sequence 11, Appl |
| 37 | 13 | 3.1 | 124 | 3 | US-08-928-361B-16 | Sequence 16, Appl |
| 38 | 13 | 3.1 | 124 | 4 | US-09-588-995A-16 | Sequence 16, Appl |
| 39 | 13 | 3.1 | 128 | 3 | US-08-700-651-7 | Sequence 7, Appl |
| 40 | 13 | 3.1 | 128 | 3 | US-08-928-361B-12 | Sequence 12, Appl |
| 41 | 13 | 3.1 | 128 | 4 | US-09-588-995A-12 | Sequence 12, Appl |
| 42 | 13 | 3.1 | 130 | 3 | US-08-700-651-8 | Sequence 8, Appl |
| 43 | 13 | 3.1 | 130 | 3 | US-08-928-361B-13 | Sequence 13, Appl |
| 44 | 13 | 3.1 | 130 | 4 | US-09-588-995A-13 | Sequence 13, Appl |
| 45 | 13 | 3.1 | 138 | 3 | US-08-700-651-10 | Sequence 10, Appl |
| 46 | 13 | 3.1 | 138 | 3 | US-08-928-361B-15 | Sequence 15, Appl |
| 47 | 13 | 3.1 | 138 | 4 | US-09-588-995A-15 | Sequence 15, Appl |
| 48 | 13 | 3.1 | 150 | 3 | US-08-928-361B-18 | Sequence 18, Appl |
| 49 | 13 | 3.1 | 150 | 4 | US-09-588-995A-18 | Sequence 18, Appl |
| 50 | 13 | 3.1 | 159 | 4 | US-09-248-796A-21631 | Sequence 21631, A |
| 51 | 13 | 3.1 | 162 | 3 | US-08-700-651-13 | Sequence 13, Appl |
| 52 | 13 | 3.1 | 207 | 4 | US-09-248-796A-16058 | Sequence 16058, A |
| 53 | 13 | 3.1 | 211 | 4 | US-09-060-767B-3 | Sequence 3, Appl |
| 54 | 13 | 3.1 | 216 | 4 | US-09-248-796A-17391 | Sequence 17391, A |
| 55 | 13 | 3.1 | 247 | 4 | US-09-248-796A-24111 | Sequence 24111, A |
| 56 | 13 | 3.1 | 288 | 4 | US-09-216-393B-341 | Sequence 341, App |
| 57 | 13 | 3.1 | 288 | 4 | US-09-216-393B-344 | Sequence 344, App |
| 58 | 13 | 3.1 | 288 | 4 | US-09-248-796A-25055 | Sequence 25055, A |
| 59 | 13 | 3.1 | 338 | 4 | US-09-778-510-4 | Sequence 4, Appl |
| 60 | 13 | 3.1 | 338 | 4 | US-09-778-510-6 | Sequence 6, Appl |
| 61 | 13 | 3.1 | 338 | 4 | US-09-907-794A-84 | Sequence 84, Appl |
| 62 | 13 | 3.1 | 338 | 4 | US-09-905-125A-84 | Sequence 84, Appl |
| 63 | 13 | 3.1 | 338 | 4 | US-09-902-725A-84 | Sequence 84, Appl |
| 64 | 13 | 3.1 | 338 | 4 | US-09-906-700-84 | Sequence 84, Appl |
| 65 | 13 | 3.1 | 338 | 4 | US-09-903-603A-84 | Sequence 84, Appl |
| 66 | 13 | 3.1 | 338 | 4 | US-09-904-920A-84 | Sequence 84, Appl |
| 67 | 13 | 3.1 | 338 | 4 | US-09-909-064-84 | Sequence 84, Appl |
| 68 | 13 | 3.1 | 338 | 4 | US-09-905-381A-84 | Sequence 84, Appl |
| 69 | 13 | 3.1 | 338 | 4 | US-09-906-618-84 | Sequence 84, Appl |
| 70 | 13 | 3.1 | 421 | 2 | US-08-659-984A-1 | Sequence 1, Appl |
| 71 | 13 | 3.1 | 421 | 3 | US-08-660-531-1 | Sequence 1, Appl |
| 72 | 13 | 3.1 | 432 | 3 | US-09-778-510-2 | Sequence 2, Appl |
| 73 | 13 | 3.1 | 444 | 2 | US-08-659-984A-5 | Sequence 5, Appl |
| 74 | 13 | 3.1 | 444 | 3 | US-08-660-531-5 | Sequence 5, Appl |
| 75 | 13 | 3.1 | 543 | 4 | US-09-248-796A-22504 | Sequence 22504, A |
| 76 | 13 | 3.1 | 612 | 4 | US-09-248-796A-24557 | Sequence 24557, A |
| 77 | 13 | 3.1 | 667 | 4 | US-09-248-796A-22880 | Sequence 22880, A |
| 78 | 13 | 3.1 | 1060 | 4 | US-09-248-796A-16624 | Sequence 16624, A |
| 79 | 13 | 3.1 | 1128 | 4 | US-09-627-650B-11 | Sequence 11, Appl |
| 80 | 13 | 3.1 | 1128 | 4 | US-09-436-063C-11 | Sequence 11, Appl |
| 81 | 12 | 2.8 | 25 | 4 | US-09-060-767B-7 | Sequence 7, Appl |
| 82 | 12 | 2.8 | 41 | 4 | US-09-060-767B-8 | Sequence 8, Appl |
| 83 | 12 | 2.8 | 105 | 4 | US-09-248-796A-22875 | Sequence 22875, A |
| 84 | 12 | 2.8 | 144 | 4 | US-09-248-796A-23990 | Sequence 23990, A |
| 85 | 12 | 2.8 | 160 | 4 | US-09-248-796A-17879 | Sequence 17879, A |
| 86 | 12 | 2.8 | 181 | 4 | US-09-248-796A-21013 | Sequence 21013, A |
| 87 | 12 | 2.8 | 351 | 4 | US-09-248-796A-25420 | Sequence 25420, A |
| 88 | 12 | 2.8 | 371 | 4 | US-09-270-767-43550 | Sequence 43550, A |
| 89 | 12 | 2.8 | 459 | 4 | US-09-248-796A-18432 | Sequence 18432, A |
| 90 | 12 | 2.8 | 541 | 4 | US-09-248-796A-18318 | Sequence 18318, A |
| 91 | 12 | 2.8 | 559 | 1 | US-08-368-071-12 | Sequence 12, Appl |
| 92 | 12 | 2.8 | 559 | 1 | US-08-458-181-12 | Sequence 12, Appl |
| 93 | 12 | 2.8 | 559 | 4 | US-09-900-708-2 | Sequence 2, Appl |
| 94 | 12 | 2.8 | 559 | 5 | PCT-US93-02172-12 | Sequence 12, Appl |
| 95 | 12 | 2.8 | 1002 | 4 | US-09-762-724-4 | Sequence 4, Appl |
| 96 | 12 | 2.8 | 3913 | 4 | US-09-949-016-10933 | Sequence 10933, A |
| 97 | 12 | 2.8 | 4377 | 4 | US-09-949-016-6978 | Sequence 6978, Ap |
| 98 | 11 | 2.6 | 13 | 4 | US-10-029-212-10 | Sequence 10, Appl |
| 99 | 11 | 2.6 | 57 | 4 | US-09-060-767B-6 | Sequence 6, Appl |
| 100 | 11 | 2.6 | 82 | 4 | US-09-248-796A-20742 | Sequence 20742, A |

```

101 2.6 189 4 US-09-248-796A-22901 Sequence 22901, A
102 2.6 210 4 US-09-252-991A-30886 Sequence 30886, A
103 2.6 292 4 US-09-248-796A-18458 Sequence 18458, A
104 2.6 309 4 US-09-248-796A-20897 Sequence 20897, A
105 2.6 362 4 US-09-248-796A-14994 Sequence 14994, A
106 2.6 392 4 US-09-248-796A-16779 Sequence 16779, A
107 2.6 613 4 US-09-248-796A-16524 Sequence 16524, A
108 2.6 734 4 US-09-248-796A-18305 Sequence 18305, A
109 2.4 64 4 US-09-248-796A-21124 Sequence 21124, A
110 2.4 65 4 US-09-248-796A-23985 Sequence 23985, A
111 2.4 84 4 US-09-248-796A-23953 Sequence 23953, A
112 2.4 94 4 US-09-270-767-59952 Sequence 59952, A
113 2.4 137 4 US-09-248-796A-26561 Sequence 26561, A
114 2.4 158 4 US-09-248-796A-21630 Sequence 21630, A
115 2.4 159 4 US-09-248-796A-16802 Sequence 16802, A
116 2.4 174 4 US-09-270-767-44506 Sequence 44506, A
117 2.4 181 4 US-09-248-796A-15978 Sequence 15978, A
118 2.4 262 4 US-09-248-796A-21832 Sequence 21832, A
119 2.4 263 4 US-09-248-796A-14400 Sequence 14400, A
120 2.4 381 4 US-09-248-796A-20867 Sequence 20867, A
121 2.4 394 4 US-09-248-796A-22220 Sequence 22220, A
122 2.4 439 4 US-09-248-796A-24059 Sequence 24059, A
123 2.4 447 4 US-09-248-796A-22277 Sequence 22277, A
124 2.4 456 4 US-09-270-767-46336 Sequence 46336, A
125 2.4 553 1 US-08-651-572-2 Sequence 2, Appl
126 2.4 553 3 US-09-066-544-2 Sequence 2, Appl
127 2.4 553 3 US-08-951-086-2 Sequence 2, Appl
128 2.4 553 3 US-09-430-669-2 Sequence 2, Appl
129 2.4 666 4 US-09-248-796A-15507 Sequence 15507, A
130 2.4 692 4 US-09-248-796A-18612 Sequence 18612, A
131 2.4 694 4 US-10-029-180-22 Sequence 22, Appl
132 2.4 1009 4 US-09-762-724-10 Sequence 10, Appl
133 2.4 1017 4 US-09-762-724-12 Sequence 12, Appl
134 2.4 1023 4 US-09-762-724-14 Sequence 14, Appl
135 2.4 1027 4 US-09-762-724-8 Sequence 8, Appl
136 2.4 1029 4 US-09-762-724-6 Sequence 6, Appl
137 9 2.1 13 4 US-10-029-212-11 Sequence 11, Appl
138 9 2.1 85 4 US-09-248-796A-21225 Sequence 21225, A
139 9 2.1 102 4 US-09-513-999C-6366 Sequence 6366, Ap
140 9 2.1 117 4 US-09-270-767-60061 Sequence 60061, A
141 9 2.1 123 4 US-09-248-796A-27877 Sequence 27877, A
142 9 2.1 133 4 US-09-270-767-39290 Sequence 39290, A
143 9 2.1 133 4 US-09-270-767-54507 Sequence 54507, A
144 9 2.1 168 4 US-09-746-801A-63 Sequence 63, Appl
145 9 2.1 175 4 US-09-270-767-33553 Sequence 33553, A
146 9 2.1 175 4 US-09-270-767-48770 Sequence 48770, A
147 9 2.1 186 4 US-09-248-796A-15844 Sequence 15844, A
148 9 2.1 195 4 US-09-248-796A-21930 Sequence 21930, A
149 9 2.1 201 4 US-09-919-039-311 Sequence 311, App
150 9 2.1 218 4 US-09-248-796A-15306 Sequence 15306, A

ALIGNMENTS

RESULT 1
US-09-778-510-22
; Sequence 22, Application US/09778510
; Patent No. 6512095
; GENERAL INFORMATION:
; APPLICANT: Baum, Peter
; TITLE OF INVENTION: Molecules Designated B7L1
; FILE REFERENCE: 2844-US
; CURRENT APPLICATION NUMBER: US/09/778,510
; CURRENT FILING DATE: 2001-02-07
; PRIOR APPLICATION NUMBER: PCT/US99/17906
; PRIOR FILING DATE: 1999-08-05
; PRIOR APPLICATION NUMBER: 60/095,663
; PRIOR FILING DATE: 1998-08-07
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 22
; LENGTH: 423

101 2.6 189 4 US-09-248-796A-22901 Sequence 22901, A
102 2.6 210 4 US-09-252-991A-30886 Sequence 30886, A
103 2.6 292 4 US-09-248-796A-18458 Sequence 18458, A
104 2.6 309 4 US-09-248-796A-20897 Sequence 20897, A
105 2.6 362 4 US-09-248-796A-14994 Sequence 14994, A
106 2.6 392 4 US-09-248-796A-16779 Sequence 16779, A
107 2.6 613 4 US-09-248-796A-16524 Sequence 16524, A
108 2.6 734 4 US-09-248-796A-18305 Sequence 18305, A
109 2.4 64 4 US-09-248-796A-21124 Sequence 21124, A
110 2.4 65 4 US-09-248-796A-23985 Sequence 23985, A
111 2.4 84 4 US-09-248-796A-23953 Sequence 23953, A
112 2.4 94 4 US-09-270-767-59952 Sequence 59952, A
113 2.4 137 4 US-09-248-796A-26561 Sequence 26561, A
114 2.4 158 4 US-09-248-796A-21630 Sequence 21630, A
115 2.4 159 4 US-09-248-796A-16802 Sequence 16802, A
116 2.4 174 4 US-09-270-767-44506 Sequence 44506, A
117 2.4 181 4 US-09-248-796A-15978 Sequence 15978, A
118 2.4 262 4 US-09-248-796A-21832 Sequence 21832, A
119 2.4 263 4 US-09-248-796A-14400 Sequence 14400, A
120 2.4 381 4 US-09-248-796A-20867 Sequence 20867, A
121 2.4 394 4 US-09-248-796A-22220 Sequence 22220, A
122 2.4 439 4 US-09-248-796A-24059 Sequence 24059, A
123 2.4 447 4 US-09-248-796A-22277 Sequence 22277, A
124 2.4 456 4 US-09-270-767-46336 Sequence 46336, A
125 2.4 553 1 US-08-651-572-2 Sequence 2, Appl
126 2.4 553 3 US-09-066-544-2 Sequence 2, Appl
127 2.4 553 3 US-08-951-086-2 Sequence 2, Appl
128 2.4 553 3 US-09-430-669-2 Sequence 2, Appl
129 2.4 666 4 US-09-248-796A-15507 Sequence 15507, A
130 2.4 692 4 US-09-248-796A-18612 Sequence 18612, A
131 2.4 694 4 US-10-029-180-22 Sequence 22, Appl
132 2.4 1009 4 US-09-762-724-10 Sequence 10, Appl
133 2.4 1017 4 US-09-762-724-12 Sequence 12, Appl
134 2.4 1023 4 US-09-762-724-14 Sequence 14, Appl
135 2.4 1027 4 US-09-762-724-8 Sequence 8, Appl
136 2.4 1029 4 US-09-762-724-6 Sequence 6, Appl
137 9 2.1 13 4 US-10-029-212-11 Sequence 11, Appl
138 9 2.1 85 4 US-09-248-796A-21225 Sequence 21225, A
139 9 2.1 102 4 US-09-513-999C-6366 Sequence 6366, Ap
140 9 2.1 117 4 US-09-270-767-60061 Sequence 60061, A
141 9 2.1 123 4 US-09-248-796A-27877 Sequence 27877, A
142 9 2.1 133 4 US-09-270-767-39290 Sequence 39290, A
143 9 2.1 133 4 US-09-270-767-54507 Sequence 54507, A
144 9 2.1 168 4 US-09-746-801A-63 Sequence 63, Appl
145 9 2.1 175 4 US-09-270-767-33553 Sequence 33553, A

```



```
US-09-778-510-20
; Sequence 20, Application US/09778510
; Patent No. 6512095
; GENERAL INFORMATION:
; APPLICANT: Baum, Peter
; TITLE OF INVENTION: Molecules Designated B7L1
; FILE REFERENCE: 2844-US
; CURRENT APPLICATION NUMBER: US/09/778,510
; CURRENT FILING DATE: 2001-02-07
; PRIOR APPLICATION NUMBER: PCT/US99/17906
; PRIOR FILING DATE: 1999-08-05
; PRIOR APPLICATION NUMBER: 60/095,663
; PRIOR FILING DATE: 1998-08-07
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 20
; LENGTH: 442
; TYPE: PRT
; ORGANISM: Homo sapien
US-09-778-510-20

Query Match      35.5%; Score 150; DB 4; Length 442;
Best Local Similarity 100.0%; Pred. No. 4.3e-132; Indels 0; Gaps 0;
Matches 150; Conservative 0; Mismatches 0;

QY 16 SAAALPTGQGNLFTKDVTVIEGEVATISCVQNKSDSDSVIQLNPNRQTIYFRDPRPLK 75
    |||||||
Db 34 SAAALPTGQGNLFTKDVTVIEGEVATISCVQNKSDSDSVIQLNPNRQTIYFRDPRPLK 93
    |||||||

QY 76 DSRFQLNFSSELKVLNVSISDEGRYFCQLYTPPQESYTTITVLVPPRNLMDIOK 135
    |||||||
Db 94 DSRFQLNFSSELKVLNVSISDEGRYFCQLYTPPQESYTTITVLVPPRNLMDIOK 153
    |||||||

QY 136 DTAVEGEIEVNCNTAMASKPATIRWFKGN 165
    |||||||
Db 154 DTAVEGEIEVNCNTAMASKPATIRWFKGN 183
    |||||||

RESULT 5
US-09-930-803-1
; Sequence 1, Application US/09930803
; Patent No. 6596493
; GENERAL INFORMATION:
; APPLICANT: THE JOHNS HOPKINS UNIVERSITY SCHOOL OF MEDICINE
; APPLICANT: REEVES, Roger
; APPLICANT: YOSHINORI, Muramaki
; TITLE OF INVENTION: DIAGNOSIS AND TREATMENT OF TUMOR-SUPPRESSOR ASSOCIATED DISORDERS
; FILE REFERENCE: JH01770-1
; CURRENT APPLICATION NUMBER: US/09/930,803
; CURRENT FILING DATE: 2001-08-15
; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 1
; LENGTH: 442
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-930-803-1

Query Match      35.5%; Score 150; DB 4; Length 442;
Best Local Similarity 100.0%; Pred. No. 4.3e-132; Indels 0; Gaps 0;
Matches 150; Conservative 0; Mismatches 0;

QY 16 SAAALPTGQGNLFTKDVTVIEGEVATISCVQNKSDSDSVIQLNPNRQTIYFRDPRPLK 75
    |||||||
Db 34 SAAALPTGQGNLFTKDVTVIEGEVATISCVQNKSDSDSVIQLNPNRQTIYFRDPRPLK 93
    |||||||

QY 76 DSRFQLNFSSELKVLNVSISDEGRYFCQLYTPPQESYTTITVLVPPRNLMDIOK 135
    |||||||
Db 94 DSRFQLNFSSELKVLNVSISDEGRYFCQLYTPPQESYTTITVLVPPRNLMDIOK 153
    |||||||

QY 136 DTAVEGEIEVNCNTAMASKPATIRWFKGN 165
    |||||||
Db 154 DTAVEGEIEVNCNTAMASKPATIRWFKGN 183
    |||||||
```

```
RESULT 6
US-09-060-767B-5
; Sequence 5, Application US/09060767B
; Patent No. 6720152
; GENERAL INFORMATION:
; APPLICANT: Weill, Gary
; APPLICANT: Chandrashekar, Ramaswamy
; TITLE OF INVENTION: Diagnosis of Histoplasmosis Using Antigens Specific for
; TITLE OF INVENTION: H.capsulatum
; FILE REFERENCE: BJCH 9986
; CURRENT APPLICATION NUMBER: US/09/060,767B
; CURRENT FILING DATE: 1998-04-15
; PRIOR APPLICATION NUMBER: 60/043,332
; PRIOR FILING DATE: 1997-04-15
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 5
; LENGTH: 41
; TYPE: PRT
; ORGANISM: Leishmania
US-09-060-767B-5

Query Match      3.5%; Score 15; DB 4; Length 41;
Best Local Similarity 100.0%; Pred. No. 1.3e-06; Indels 0; Gaps 0;
Matches 15; Conservative 0; Mismatches 0;

QY 321 PPTTTTTTTTTTTTTT 335
    |||||||
Db 1 PPTTTTTTTTTTTTTT 15
    |||||||

RESULT 7
US-08-700-651-9
; Sequence 9, Application US/08700651B
; Patent No. 6015882
; GENERAL INFORMATION:
; APPLICANT: PETERSEN, CAROLYN
; APPLICANT: LEECH, JAMES
; APPLICANT: NELSON, RICHARD, C.
; APPLICANT: GUT, JIRI
; TITLE OF INVENTION: VACCINES, ANTIBODIES, PROTEINS, GLYCOPROTEINS, DNAS AND RNAS
; TITLE OF INVENTION: FOR PROPHYLAXIS AND TREATMENT OF Cryptosporidium parvum
; TITLE OF INVENTION: INFECTIONS
; FILE REFERENCE: 480.19-4(HV)
; CURRENT APPLICATION NUMBER: US/08/700,651B
; CURRENT FILING DATE: 1997-08-14
; EARLIER APPLICATION NUMBER: 08/415,751
; EARLIER FILING DATE: 1995-04-03
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 9
; LENGTH: 130
; TYPE: PRT
; ORGANISM: Cryptosporidium parvum
; FEATURE:
; OTHER INFORMATION: mutant/variant of SEQ ID NO:5
US-08-700-651-9

Query Match      3.3%; Score 14; DB 3; Length 130;
Best Local Similarity 100.0%; Pred. No. 3.3e-05; Indels 0; Gaps 0;
Matches 14; Conservative 0; Mismatches 0;

QY 322 PTTTITTTTTTTTTT 335
    |||||||
Db 48 PTTTITTTTTTTTTT 61
    |||||||

RESULT 8
US-08-928-361B-14
; Sequence 14, Application US/08928361B
; Patent No. 6071518
```



```

; GENERAL INFORMATION:
; APPLICANT: Petersen, Carolyn
; TITLE OF INVENTION: PEPTIDES, POLYPEPTIDES, GLYCOPROTEINS,
; TITLE OF INVENTION: THEIR FUNCTIONAL MUTANTS, VARIANTS, ANALOGS AND FRAGMENTS
; TITLE OF INVENTION: FOR TREATMENT AND DETECTION/DIAGNOSIS OF CRYPTOSPORIDIUM
; TITLE OF INVENTION: SPECIES INFECTIONS
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: PETERS, VERNY, JONES & BIKSA
; STREET: 385 Sherman Avenue, Suite 6
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94306-1840
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/928,361B
; FILING DATE: 12-SEP-1997
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/026,062
; FILING DATE: 13-SEP-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: VERNY, Hana
; REGISTRATION NUMBER: 30,518
; REFERENCE/DOCKET NUMBER: 480.76-1 (HV)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 650-324-1677
; TELEFAX: 650-324-1678
; INFORMATION FOR SEQ ID NO: 14:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 130 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-928-361B-14

Query Match 3.3%; Score 14; DB 3; Length 130;
Best Local Similarity 100.0%; Pred. No. 3.3e-05;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 322 PTTTTTTTTTTT 335
Db 48 PTTTTTTTTTTT 61

RESULT 9
US-09-588-995A-14
; Sequence 14, Application US/09588995A
; Patent No. 6514697
; GENERAL INFORMATION:
; APPLICANT: PETERSEN, CAROLYN
; APPLICANT: BARNES, DEBRA A.
; APPLICANT: NELSON, RICHARD C.
; APPLICANT: GUT, JIRI
; TITLE OF INVENTION: METHODS FOR DETECTION OF CRYPTOSPORIDIUM SPECIES AND
; TITLE OF INVENTION: ISOLATES AND FOR DIAGNOSIS OF CRYPTOSPORIDIUM
; TITLE OF INVENTION: INFECTIONS
; FILE REFERENCE: 480.19-5
; CURRENT APPLICATION NUMBER: US/09/588,995A
; CURRENT FILING DATE: 2000-06-06
; PRIOR APPLICATION NUMBER: 08/827,171
; PRIOR FILING DATE: 1997-03-27
; PRIOR APPLICATION NUMBER: 08/928,361
; PRIOR FILING DATE: 1997-09-12
; PRIOR APPLICATION NUMBER: 08/700,651
; PRIOR FILING DATE: 1996-08-14
; PRIOR APPLICATION NUMBER: 08/415,751

```

```

; PRIOR FILING DATE: 1995-04-03
; NUMBER OF SEQ ID NOS: 115
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 14
; LENGTH: 130
; TYPE: PRT
; ORGANISM: Cryptosporidium parvum
; US-09-588-995A-14

Query Match 3.3%; Score 14; DB 4; Length 130;
Best Local Similarity 100.0%; Pred. No. 3.3e-05;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 322 PTTTTTTTTTTT 335
Db 48 PTTTTTTTTTTT 61

RESULT 10
US-08-700-651-12
; Sequence 12, Application US/08700651B
; Patent No. 6015882
; GENERAL INFORMATION:
; APPLICANT: PETERSEN, CAROLYN
; APPLICANT: LEECH, JAMES
; APPLICANT: NELSON, RICHARD, C.
; APPLICANT: GUT, JIRI
; TITLE OF INVENTION: VACCINES, ANTIBODIES, PROTEINS, GLYCOPROTEINS, DNAS AND RNAS
; TITLE OF INVENTION: FOR PROPHYLAXIS AND TREATMENT OF Cryptosporidium parvum
; TITLE OF INVENTION: INFECTIONS
; FILE REFERENCE: 480.19-4 (HV)
; CURRENT APPLICATION NUMBER: US/08/700,651B
; CURRENT FILING DATE: 1997-08-14
; EARLIER APPLICATION NUMBER: 08/415,751
; EARLIER FILING DATE: 1995-04-03
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 12
; LENGTH: 175
; TYPE: PRT
; ORGANISM: Cryptosporidium parvum
; FEATURE:
; OTHER INFORMATION: mutant/variant of SEQ ID NO:5
; US-08-700-651-12

Query Match 3.3%; Score 14; DB 3; Length 175;
Best Local Similarity 100.0%; Pred. No. 4.4e-05;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 322 PTTTTTTTTTTT 335
Db 87 PTTTTTTTTTTT 100

RESULT 11
US-08-928-361B-17
; Sequence 17, Application US/08928361B
; Patent No. 6071518
; GENERAL INFORMATION:
; APPLICANT: Petersen, Carolyn
; TITLE OF INVENTION: PEPTIDES, POLYPEPTIDES, GLYCOPROTEINS,
; TITLE OF INVENTION: THEIR FUNCTIONAL MUTANTS, VARIANTS, ANALOGS AND FRAGMENTS
; TITLE OF INVENTION: FOR TREATMENT AND DETECTION/DIAGNOSIS OF CRYPTOSPORIDIUM
; TITLE OF INVENTION: SPECIES INFECTIONS
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: PETERS, VERNY, JONES & BIKSA
; STREET: 385 Sherman Avenue, Suite 6
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94306-1840
; COMPUTER READABLE FORM:

```


; LENGTH: 216 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-928-361B-8

Query Match 3.3%; Score 14; DB 3; Length 216;
Best Local Similarity 100.0%; Pred. No. 5.3e-05;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 322 PTTTTTTTTTTT 335
Db 70 PTTTTTTTTTTT 83

RESULT 15

US-08-928-361B-27
; Sequence 27, Application US/08928361B
; Patent No. 6071518
; GENERAL INFORMATION:
; APPLICANT: Petersen, Carolyn
; TITLE OF INVENTION: PEPTIDES, POLYPEPTIDES, GLYCOPROTEINS,
; THEIR FUNCTIONAL MUTANTS, VARIANTS, ANALOGS AND FRAGMENTS
; TITLE OF INVENTION: FOR TREATMENT AND DETECTION/DIAGNOSIS OF CRYPTOSPORIDIUM
; TITLE OF INVENTION: SPECIES INFECTIONS
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: PETERS, VERNY, JONES & BIKSA
; STREET: 385 Sherman Avenue, Suite 6
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94306-1840
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/928,361B
; FILING DATE: 12-SEP-1997
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/026,062
; FILING DATE: 13-SEP-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Verny, Hana
; REGISTRATION NUMBER: 30,518
; REFERENCE/DOCKET NUMBER: 480.76-1 (HV)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 650-324-1677
; TELEFAX: 650-324-1678
; INFORMATION FOR SEQ ID NO: 27:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 216 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-928-361B-27

Query Match 3.3%; Score 14; DB 3; Length 216;
Best Local Similarity 100.0%; Pred. No. 5.3e-05;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 322 PTTTTTTTTTTT 335
Db 116 PTTTTTTTTTTT 129

RESULT 16

US-09-588-995A-8

; Sequence 8, Application US/09588995A
; Patent No. 6514697
; GENERAL INFORMATION:
; APPLICANT: PETERSEN, CAROLYN
; APPLICANT: BARNES, DEBRA A.
; APPLICANT: NELSON, RICHARD C.
; APPLICANT: GUT, JIRI
; TITLE OF INVENTION: METHODS FOR DETECTION OF CRYPTOSPORIDIUM SPECIES AND
; TITLE OF INVENTION: ISOLATES AND FOR DIAGNOSIS OF CRYPTOSPORIDIUM
; TITLE OF INVENTION: INFECTIONS
; FILE REFERENCE: 480.19-5
; CURRENT APPLICATION NUMBER: US/09/588,995A
; CURRENT FILING DATE: 2000-06-06
; PRIOR APPLICATION NUMBER: 08/827,171
; PRIOR FILING DATE: 1997-03-27
; PRIOR APPLICATION NUMBER: 08/928,361
; PRIOR FILING DATE: 1997-09-12
; PRIOR APPLICATION NUMBER: 08/700,651
; PRIOR FILING DATE: 1996-08-14
; PRIOR APPLICATION NUMBER: 08/415,751
; PRIOR FILING DATE: 1995-04-03
; NUMBER OF SEQ ID NOS: 115
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 8
; LENGTH: 216
; TYPE: PRT
; ORGANISM: Cryptosporidium parvum
US-09-588-995A-8

Query Match 3.3%; Score 14; DB 4; Length 216;
Best Local Similarity 100.0%; Pred. No. 5.3e-05;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 322 PTTTTTTTTTTT 335
Db 70 PTTTTTTTTTTT 83

RESULT 17

US-08-700-651-15
; Sequence 15, Application US/08700651B
; Patent No. 6015882
; GENERAL INFORMATION:
; APPLICANT: PETERSEN, CAROLYN
; APPLICANT: LEECH, JAMES
; APPLICANT: NELSON, RICHARD, C.
; APPLICANT: GUT, JIRI
; TITLE OF INVENTION: VACCINES, ANTIBODIES, PROTEINS, GLYCOPROTEINS, DNAS AND RNAS
; TITLE OF INVENTION: FOR PROPHYLAXIS AND TREATMENT OF Cryptosporidium parvum
; TITLE OF INVENTION: INFECTIONS
; FILE REFERENCE: 480.19-4 (HV)
; CURRENT APPLICATION NUMBER: US/08/700,651B
; CURRENT FILING DATE: 1997-08-14
; EARLIER APPLICATION NUMBER: 08/415,751
; EARLIER FILING DATE: 1995-04-03
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 15
; LENGTH: 249
; TYPE: PRT
; ORGANISM: Cryptosporidium parvum
; FEATURE:
; OTHER INFORMATION: mutant/variant of SEQ ID NO:5
US-08-700-651-15

Query Match 3.3%; Score 14; DB 3; Length 249;
Best Local Similarity 100.0%; Pred. No. 6.1e-05;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 322 PTTTTTTTTTTT 335
Db 165 PTTTTTTTTTTT 178

```
RESULT 18
US-08-928-361B-20
; Sequence 20, Application US/08928361B
; Patent No. 6071518
; GENERAL INFORMATION:
; APPLICANT: Petersen, Carolyn
; TITLE OF INVENTION: PEPTIDES, POLYPEPTIDES, GLYCOPROTEINS,
; TITLE OF INVENTION: THEIR FUNCTIONAL MUTANTS, VARIANTS, ANALOGS AND FRAGMENTS
; TITLE OF INVENTION: FOR TREATMENT AND DETECTION/DIAGNOSIS OF CRYPTOSPORIDIUM
; TITLE OF INVENTION: SPECIES INFECTIONS
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: PETERS, VERNY, JONES & BIKSA
; STREET: 385 Sherman Avenue, Suite 6
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94306-1840
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/928,361B
; FILING DATE: 12-SEP-1997
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/026,062
; FILING DATE: 13-SEP-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Verny, Hana
; REGISTRATION NUMBER: 30,518
; REFERENCE/DOCKET NUMBER: 480.76-1 (HV)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 650-324-1677
; TELEFAX: 650-324-1678
; INFORMATION FOR SEQ ID NO: 20:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 249 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-928-361B-20

Query Match 3.3%; Score 14; DB 3; Length 249;
Best Local Similarity 100.0%; Pred. No. 6.1e-05;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 322 PTTTNTTTTTTTTTT 335
Db 165 PTTTNTTTTTTTTTT 178

RESULT 19
US-09-588-995A-20
; Sequence 20, Application US/09588995A
; Patent No. 6514697
; GENERAL INFORMATION:
; APPLICANT: PETERSEN, CAROLYN
; APPLICANT: BARNES, DEBRA A.
; APPLICANT: NELSON, RICHARD C.
; APPLICANT: GUT, JIRI
; TITLE OF INVENTION: METHODS FOR DETECTION OF CRYPTOSPORIDIUM SPECIES AND
; TITLE OF INVENTION: ISOLATES AND FOR DIAGNOSIS OF CRYPTOSPORIDIUM
; TITLE OF INVENTION: INFECTIONS
; FILE REFERENCE: 480.19-5
; CURRENT APPLICATION NUMBER: US/09/588,995A
; CURRENT FILING DATE: 2000-06-06
; PRIOR APPLICATION NUMBER: 08/827,171
; PRIOR FILING DATE: 1997-03-27
```

```
; PRIOR APPLICATION NUMBER: 08/928,361
; PRIOR FILING DATE: 1997-09-12
; PRIOR APPLICATION NUMBER: 08/700,651
; PRIOR FILING DATE: 1996-08-14
; PRIOR APPLICATION NUMBER: 08/415,751
; PRIOR FILING DATE: 1995-04-03
; NUMBER OF SEQ ID NOS: 115
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 20
; LENGTH: 249
; TYPE: PRT
; ORGANISM: Cryptosporidium parvum
US-09-588-995A-20

Query Match 3.3%; Score 14; DB 4; Length 249;
Best Local Similarity 100.0%; Pred. No. 6.1e-05;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 322 PTTTNTTTTTTTTTT 335
Db 165 PTTTNTTTTTTTTTT 178

RESULT 20
US-07-867-106-3
; Sequence 3, Application US/07867106
; Patent No. 5389526
; GENERAL INFORMATION:
; APPLICANT: Slade, Martin B
; APPLICANT: Chang, Andy C M
; APPLICANT: Williams, Keith L
; TITLE OF INVENTION: Improved Plasmid Vectors for Cellular
; TITLE OF INVENTION: Slime Moulds of the Genus Dictyostelium
; NUMBER OF SEQUENCES: 19
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Woodcock Washburn Kurtz Mackiewicz & No. 5389526ris
; STREET: One Liberty Place 46th Floor
; CITY: Philadelphia
; STATE: PA
; COUNTRY: USA
; ZIP: 19103
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/867,106
; FILING DATE: 19920625
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: AU PJ 7187
; FILING DATE: 02-NOV-1989
; ATTORNEY/AGENT INFORMATION:
; NAME: Feeney, Joanne Longo
; REGISTRATION NUMBER: 35,134
; REFERENCE/DOCKET NUMBER: RICE-0002
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 215-568-3100
; TELEFAX: 215-568-3439
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 887 amino acids
; TYPE: AMINO ACID
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-07-867-106-3

Query Match 3.3%; Score 14; DB 1; Length 887;
Best Local Similarity 100.0%; Pred. No. 0.00019;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 322 PTTTNTTTTTTTTTT 335
```

Db 250 PTTTTTTTTTTT 263
|||||
RESULT 21
US-08-700-651-5
; Sequence 5, Application US/08700651B
; Patent No. 6015882
; GENERAL INFORMATION:
; APPLICANT: PETERSEN, CAROLYN
; APPLICANT: LEECH, JAMES
; APPLICANT: NELSON, RICHARD, C.
; APPLICANT: GUT, JIRI
; TITLE OF INVENTION: VACCINES, ANTIBODIES, PROTEINS, GLYCOPROTEINS, DNAS AND RNAS
; TITLE OF INVENTION: FOR PROPHYLAXIS AND TREATMENT OF Cryptosporidium parvum
; TITLE OF INVENTION: INFECTIONS
; FILE REFERENCE: 480.19-4 (HV)
; CURRENT APPLICATION NUMBER: US/08/700,651B
; CURRENT FILING DATE: 1997-08-14
; EARLIER APPLICATION NUMBER: 08/415,751
; EARLIER FILING DATE: 1995-04-03
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 5
; LENGTH: 1721
; TYPE: PRT
; ORGANISM: Cryptosporidium parvum
US-08-700-651-5
Query Match 3.3%; Score 14; DB 3; Length 1721;
Best Local Similarity 100.0%; Pred. No. 0.00036;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 322 PTTTTTTTTTTT 335
Db 307 PTTTTTTTTTTT 320
|||||
RESULT 22
US-08-928-361B-6
; Sequence 6, Application US/08928361B
; Patent No. 6071518
; GENERAL INFORMATION:
; APPLICANT: Petersen, Carolyn
; TITLE OF INVENTION: PEPTIDES, POLYPEPTIDES, GLYCOPROTEINS,
; TITLE OF INVENTION: THEIR FUNCTIONAL MUTANTS, VARIANTS, ANALOGS AND FRAGMENTS
; TITLE OF INVENTION: FOR TREATMENT AND DETECTION/DIAGNOSIS OF CRYPTOSPORIDIUM
; TITLE OF INVENTION: SPECIES INFECTIONS
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: PETERS, VERNY, JONES & BIKSA
; STREET: 385 Sherman Avenue, Suite 6
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94306-1840
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/928,361B
; FILING DATE: 12-SEP-1997
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/026,062
; FILING DATE: 13-SEP-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Vetry, Hana
; REGISTRATION NUMBER: 30,518
; REFERENCE/DOCKET NUMBER: 480.76-1 (HV)
; TELECOMMUNICATION INFORMATION:
; ADDRESS: PETERS, VERNY, JONES & BIKSA

; TELEPHONE: 650-324-1677
; TELEFAX: 650-324-1678
; INFORMATION FOR SEQ ID NO: 6:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1721 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-928-361B-6

Query Match 3.3%; Score 14; DB 3; Length 1721;
Best Local Similarity 100.0%; Pred. No. 0.00036;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 322 PTTTTTTTTTTT 335
Db 307 PTTTTTTTTTTT 320
|||||

RESULT 23
US-09-588-995A-6
; Sequence 6, Application US/09588995A
; Patent No. 6514697
; GENERAL INFORMATION:
; APPLICANT: PETERSEN, CAROLYN
; APPLICANT: BARNES, DEBRA A.
; APPLICANT: NELSON, RICHARD C.
; APPLICANT: GUT, JIRI
; TITLE OF INVENTION: METHODS FOR DETECTION OF CRYPTOSPORIDIUM SPECIES AND
; TITLE OF INVENTION: ISOLATES AND FOR DIAGNOSIS OF CRYPTOSPORIDIUM
; TITLE OF INVENTION: INFECTIONS
; FILE REFERENCE: 480.19-5
; CURRENT APPLICATION NUMBER: US/09/588,995A
; CURRENT FILING DATE: 2000-06-06
; PRIOR APPLICATION NUMBER: 08/827,171
; PRIOR FILING DATE: 1997-03-27
; PRIOR APPLICATION NUMBER: 08/928,361
; PRIOR FILING DATE: 1997-09-12
; PRIOR APPLICATION NUMBER: 08/700,651
; PRIOR FILING DATE: 1996-08-14
; PRIOR APPLICATION NUMBER: 08/415,751
; PRIOR FILING DATE: 1995-04-03
; NUMBER OF SEQ ID NOS: 115
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 6
; LENGTH: 1721
; TYPE: PRT
; ORGANISM: Cryptosporidium parvum
US-09-588-995A-6

Query Match 3.3%; Score 14; DB 4; Length 1721;
Best Local Similarity 100.0%; Pred. No. 0.00036;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 322 PTTTTTTTTTTT 335
Db 307 PTTTTTTTTTTT 320
|||||

RESULT 24
US-08-928-361B-5
; Sequence 5, Application US/08928361B
; Patent No. 6071518
; GENERAL INFORMATION:
; APPLICANT: Petersen, Carolyn
; TITLE OF INVENTION: PEPTIDES, POLYPEPTIDES, GLYCOPROTEINS,
; TITLE OF INVENTION: THEIR FUNCTIONAL MUTANTS, VARIANTS, ANALOGS AND FRAGMENTS
; TITLE OF INVENTION: FOR TREATMENT AND DETECTION/DIAGNOSIS OF CRYPTOSPORIDIUM
; TITLE OF INVENTION: SPECIES INFECTIONS
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: PETERS, VERNY, JONES & BIKSA

STREET: 385 Sherman Avenue, Suite 6
CITY: Palo Alto
STATE: CA
COUNTRY: USA
ZIP: 94306-1840
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/928,361B
FILING DATE: 12-SEP-1997
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/026,062
FILING DATE: 13-SEP-1996
ATTORNEY/AGENT INFORMATION:
NAME: Verny, Hana
REGISTRATION NUMBER: 30,518
REFERENCE/DOCKET NUMBER: 480.76-1 (HV)
TELECOMMUNICATION INFORMATION:
TELEPHONE: 650-324-1677
TELEFAX: 650-324-1678
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 1837 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-928-361B-5

Query Match 3.3%; Score 14; DB 3; Length 1837;
Best Local Similarity 100.0%; Pred. No. 0.00038;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 322 PTTTTTTTTTTT 335
Db 378 PTTTTTTTTTTT 391

RESULT 25
US-09-588-995A-5
Sequence 5, Application US/09588995A
Patent No. 6514697
GENERAL INFORMATION:
APPLICANT: PETERSEN, CAROLYN
APPLICANT: BARNES, DEBRA A.
APPLICANT: NELSON, RICHARD C.
APPLICANT: GUT, JIRI
TITLE OF INVENTION: METHODS FOR DETECTION OF CRYPTOSPORIDIUM SPECIES AND
TITLE OF INVENTION: ISOLATES AND FOR DIAGNOSIS OF CRYPTOSPORIDIUM
INFECTIONS
FILE REFERENCE: 480.19-5
CURRENT APPLICATION NUMBER: US/09/588,995A
CURRENT FILING DATE: 2000-06-06
PRIOR APPLICATION NUMBER: 08/827,171
PRIOR FILING DATE: 1997-03-27
PRIOR APPLICATION NUMBER: 08/928,361
PRIOR FILING DATE: 1997-09-12
PRIOR APPLICATION NUMBER: 08/700,651
PRIOR FILING DATE: 1996-08-14
PRIOR APPLICATION NUMBER: 08/415,751
PRIOR FILING DATE: 1995-04-03
NUMBER OF SEQ ID NOS: 115
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 5
LENGTH: 1837
TYPE: PRT
ORGANISM: Cryptosporidium parvum
US-09-588-995A-5

Query Match 3.3%; Score 14; DB 4; Length 1837;
Best Local Similarity 100.0%; Pred. No. 0.00038;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 322 PTTTTTTTTTTT 335
Db 378 PTTTTTTTTTTT 391

RESULT 26
US-09-205-258-953
Sequence 953, Application US/09205258
Patent No. 6525174
GENERAL INFORMATION:
APPLICANT: Young et al.
TITLE OF INVENTION: 207 Human Secreted Proteins
FILE REFERENCE: P2007P1
CURRENT APPLICATION NUMBER: US/09/205,258
CURRENT FILING DATE: 1998-12-04
EARLIER APPLICATION NUMBER: PCT/US98/11422
EARLIER FILING DATE: 1998-06-04
EARLIER APPLICATION NUMBER: 60/048,885
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/049,375
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/048,881
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/048,880
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/048,896
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/049,020
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/048,876
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/048,895
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/048,884
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/048,894
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/048,971
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/048,964
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/048,882
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/048,899
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/048,893
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/048,900
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/048,901
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/048,892
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/048,915
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/049,019
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/048,970
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/048,972
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/048,916
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/049,373
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/048,875
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/049,374
EARLIER FILING DATE: 1997-06-06

```
; EARLIER APPLICATION NUMBER: 60/048,917
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/048,949
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/048,974
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/048,883
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/048,897
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/048,898
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/048,962
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/048,963
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/048,877
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/048,878
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/070,923
; EARLIER FILING DATE: 1997-12-18
; EARLIER APPLICATION NUMBER: 60/092,921
; EARLIER FILING DATE: 1998-07-15
; EARLIER APPLICATION NUMBER: 60/094,657
; EARLIER FILING DATE: 1998-07-30
; NUMBER OF SEQ ID NOS: 1227
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 953
; LENGTH: 44
; TYPE: PRT
; ORGANISM: Homo sapiens
; ORGANISM: Homo sapiens
US-09-205-258-953

Query Match          3.1%; Score 13; DB 4; Length 44;
Best Local Similarity 100.0%; Pred. No. 0.00011;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 401 DADTAIINAEQQ 413
DB 21 DADTAIINAEQQ 33
|||||

RESULT 27
US-08-900-230-59
; Sequence 59, Application US/08900230
; Patent No. 6329197
; GENERAL INFORMATION:
; APPLICANT: Bard, Jonathan A.
; TITLE OF INVENTION: DNA ENCODING GALANN GALR3 RECEPTORS AND
; TITLE OF INVENTION: USES THEREOF
; NUMBER OF SEQUENCES: 59
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Cooper & Dunham LLP
; STREET: 1185 Avenue of The Americas
; CITY: New York
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 11036
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/900,230
; FILING DATE: 23-JUL-1997
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: White, John P.
; REGISTRATION NUMBER: 28,678
; REFERENCE/DOCKET NUMBER: 52241-C/JPW/ADM
; TELECOMMUNICATION INFORMATION:
```

```
; TELEPHONE: 212-278-0400
; TELEFAX: 212-391-0525
; INFORMATION FOR SEQ ID NO: 59:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 57 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: NO
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
US-08-900-230-59

Query Match          3.1%; Score 13; DB 3; Length 57;
Best Local Similarity 100.0%; Pred. No. 0.00014;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 323 TTTTITTTTTTTT 335
DB 1 TTTTITTTTTTTT 13
|||||

RESULT 28
US-09-060-767B-9
; Sequence 9, Application US/09060767B
; Patent No. 6720152
; GENERAL INFORMATION:
; APPLICANT: Chandrasekar, Ramaswamy
; TITLE OF INVENTION: Diagnosis of Histoplasmosis Using Antigens Specific for
; TITLE OF INVENTION: H. capsulatum
; FILE REFERENCE: BUCH 9986
; CURRENT APPLICATION NUMBER: US/09/060,767B
; CURRENT FILING DATE: 1998-04-15
; PRIOR APPLICATION NUMBER: 60/043,332
; PRIOR FILING DATE: 1997-04-15
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 9
; LENGTH: 57
; TYPE: PRT
; ORGANISM: Histoplasma Capsulatum
US-09-060-767B-9

Query Match          3.1%; Score 13; DB 4; Length 57;
Best Local Similarity 100.0%; Pred. No. 0.00014;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 320 PPPTTTTTTTTTT 332
DB 16 PPPTTTTTTTTTT 28
|||||

RESULT 29
US-09-248-796A-23083
; Sequence 23083, Application US/09248796A
; Patent No. 6747137
; GENERAL INFORMATION:
; APPLICANT: Keith Weinstock et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICANS
; TITLE OF INVENTION: FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.132
; CURRENT APPLICATION NUMBER: US/09/248,796A
; CURRENT FILING DATE: 1999-02-12
; PRIOR APPLICATION NUMBER: US 60/074,725
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: US 60/096,409
; PRIOR FILING DATE: 1998-08-13
; NUMBER OF SEQ ID NOS: 28208
; SEQ ID NO 23083
; LENGTH: 63
; TYPE: PRT
; ORGANISM: Candida albicans
```

US-09-248-796A-23083

Query Match 3.1%; Score 13; DB 4; Length 63;
Best Local Similarity 100.0%; Pred. No. 0.00015;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 322 TTTT TTTT TTTT TTTT 334
|||||
Db 36 TTTT TTTT TTTT TTTT 48

RESULT 30

US-09-248-796A-25289
; Sequence 25289, Application US/09248796A
; Patent No. 6747137
; GENERAL INFORMATION:
; APPLICANT: Keith Weinstock et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICAN
; TITLE OF INVENTION: FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.132
; CURRENT APPLICATION NUMBER: US/09/248,796A
; PRIOR FILING DATE: 1999-02-12
; PRIOR APPLICATION NUMBER: US 60/074,725
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: US 60/096,409
; PRIOR FILING DATE: 1998-08-13
; NUMBER OF SEQ ID NOS: 28208
; SEQ ID NO 25289
; LENGTH: 75
; TYPE: PRT
; ORGANISM: Candida albicans
US-09-248-796A-25289

Query Match 3.1%; Score 13; DB 4; Length 75;
Best Local Similarity 100.0%; Pred. No. 0.00017;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 323 TTTT TTTT TTTT TTTT 335
|||||
Db 7 TTTT TTTT TTTT TTTT 19

RESULT 31

US-08-700-651-14
; Sequence 14, Application US/08700651B
; Patent No. 6015882
; GENERAL INFORMATION:
; APPLICANT: PETERSEN, CAROLYN
; APPLICANT: LEECH, JAMES
; APPLICANT: NELSON, RICHARD, C.
; APPLICANT: GUT, JIRI
; TITLE OF INVENTION: VACCINES, ANTIBODIES, PROTEINS, GLYCOPROTEINS, DNAS AND RNAS
; TITLE OF INVENTION: FOR PROPHYLAXIS AND TREATMENT OF Cryptosporidium parvum
; TITLE OF INVENTION: INFECTIONS
; FILE REFERENCE: 480.19-4 (HV)
; CURRENT APPLICATION NUMBER: US/08/700,651B
; CURRENT FILING DATE: 1997-08-14
; EARLIER APPLICATION NUMBER: 08/415,751
; EARLIER FILING DATE: 1995-04-03
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 14
; LENGTH: 91
; TYPE: PRT
; ORGANISM: Cryptosporidium parvum
; FEATURE:
; OTHER INFORMATION: mutant/variant of SEQ ID NO:5
US-08-700-651-14

Query Match 3.1%; Score 13; DB 3; Length 91;
Best Local Similarity 100.0%; Pred. No. 0.00021;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 323 TTTT TTTT TTTT TTTT 335
|||||
Db 18 TTTT TTTT TTTT TTTT 30

RESULT 32

US-08-928-361B-19
; Sequence 19, Application US/08928361B
; Patent No. 6071518
; GENERAL INFORMATION:
; APPLICANT: Petersen, Carolyn
; TITLE OF INVENTION: PEPTIDES, POLYPEPTIDES, GLYCOPROTEINS,
; TITLE OF INVENTION: THEIR FUNCTIONAL MUTANTS, VARIANTS, ANALOGS AND FRAGMENTS
; TITLE OF INVENTION: FOR TREATMENT AND DETECTION/DIAGNOSIS OF CRYPTOSPORIDIUM
; TITLE OF INVENTION: SPECIES INFECTIONS
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: PETERS, VERNY, JONES & BIKSA
; STREET: 385 Sherman Avenue, Suite 6
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94306-1840
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/928,361B
; FILING DATE: 12-SEP-1997
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/026,062
; FILING DATE: 13-SEP-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Verny, Hana
; REGISTRATION NUMBER: 30,518
; REFERENCE/DOCKET NUMBER: 480.76-1 (HV)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 650-324-1677
; TELEFAX: 650-324-1678
; INFORMATION FOR SEQ ID NO: 19:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 91 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-928-361B-19

Query Match 3.1%; Score 13; DB 3; Length 91;
Best Local Similarity 100.0%; Pred. No. 0.00021;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 323 TTTT TTTT TTTT TTTT 335
|||||
Db 18 TTTT TTTT TTTT TTTT 30

RESULT 33

US-09-588-995A-19
; Sequence 19, Application US/09588995A
; Patent No. 6514697
; GENERAL INFORMATION:
; APPLICANT: PETERSEN, CAROLYN
; APPLICANT: BARNES, DEBRA A.
; APPLICANT: NELSON, RICHARD C.
; APPLICANT: GUT, JIRI
; TITLE OF INVENTION: METHODS FOR DETECTION OF CRYPTOSPORIDIUM SPECIES AND
; TITLE OF INVENTION: ISOLATES AND FOR DIAGNOSIS OF CRYPTOSPORIDIUM
; TITLE OF INVENTION: INFECTIONS
; FILE REFERENCE: 480.19-5

; CURRENT APPLICATION NUMBER: US/09/588,995A
 ; CURRENT FILING DATE: 2000-06-06
 ; PRIOR APPLICATION NUMBER: 08/827,171
 ; PRIOR FILING DATE: 1997-03-27
 ; PRIOR APPLICATION NUMBER: 08/928,361
 ; PRIOR FILING DATE: 1997-09-12
 ; PRIOR APPLICATION NUMBER: 08/700,651
 ; PRIOR FILING DATE: 1996-08-14
 ; PRIOR APPLICATION NUMBER: 08/415,751
 ; PRIOR FILING DATE: 1995-04-03
 ; NUMBER OF SEQ ID NOS: 115
 ; SOFTWARE: PatentIn Ver. 2.1
 ; SEQ ID NO 19
 ; LENGTH: 91
 ; TYPE: PRT
 ; ORGANISM: Cryptosporidium parvum
 US-09-588-995A-19

Query Match 3.1%; Score 13; DB 4; Length 91;
 Best Local Similarity 100.0%; Pred. No. 0.00021;
 Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 323 TTTT TTTT TTTT TTTT 335
 Db 18 TTTT TTTT TTTT TTTT 30

RESULT 34
 US-09-767-36192
 ; Sequence 36192, Application US/09270767
 ; Patent No. 6703491
 ; GENERAL INFORMATION:
 ; APPLICANT: Homburger et al.
 ; TITLE OF INVENTION: Nucleic acids and proteins of *Drosophila melanogaster*
 ; FILE REFERENCE: File Reference: 7326-094
 ; CURRENT APPLICATION NUMBER: US/09/270,767
 ; CURRENT FILING DATE: 1999-03-17
 ; NUMBER OF SEQ ID NOS: 62517
 ; SOFTWARE: PatentIn Ver. 2.0
 ; SEQ ID NO 36192
 ; LENGTH: 106
 ; TYPE: PRT
 ; ORGANISM: *Drosophila melanogaster*
 US-09-270-767-36192

Query Match 3.1%; Score 13; DB 4; Length 106;
 Best Local Similarity 100.0%; Pred. No. 0.00024;
 Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 323 TTTT TTTT TTTT TTTT 335
 Db 89 TTTT TTTT TTTT TTTT 101

RESULT 35
 US-09-270-767-51409
 ; Sequence 51409, Application US/09270767
 ; Patent No. 6703491
 ; GENERAL INFORMATION:
 ; APPLICANT: Homburger et al.
 ; TITLE OF INVENTION: Nucleic acids and proteins of *Drosophila melanogaster*
 ; FILE REFERENCE: File Reference: 7326-094
 ; CURRENT APPLICATION NUMBER: US/09/270,767
 ; CURRENT FILING DATE: 1999-03-17
 ; NUMBER OF SEQ ID NOS: 62517
 ; SOFTWARE: PatentIn Ver. 2.0
 ; SEQ ID NO 51409
 ; LENGTH: 106
 ; TYPE: PRT
 ; ORGANISM: *Drosophila melanogaster*
 US-09-270-767-51409

Query Match 3.1%; Score 13; DB 4; Length 106;

Best Local Similarity 100.0%; Pred. No. 0.00024;
 Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 323 TTTT TTTT TTTT TTTT 335
 Db 89 TTTT TTTT TTTT TTTT 101

RESULT 36
 US-08-700-651-11
 ; Sequence 11, Application US/08700651B
 ; Patent No. 6015882
 ; GENERAL INFORMATION:
 ; APPLICANT: PETERSEN, CAROLYN
 ; APPLICANT: LEECH, JAMES
 ; APPLICANT: NELSON, RICHARD, C.
 ; APPLICANT: GUT, JIRI
 ; TITLE OF INVENTION: VACCINES, ANTIBODIES, PROTEINS, GLYCOPROTEINS, DNAS AND RNAS
 ; TITLE OF INVENTION: FOR PROPHYLAXIS AND TREATMENT OF Cryptosporidium parvum
 ; TITLE OF INVENTION: INFECTIONS
 ; FILE REFERENCE: 480.19-4 (HV)
 ; CURRENT APPLICATION NUMBER: US/08/700,651B
 ; CURRENT FILING DATE: 1997-08-14
 ; EARLIER APPLICATION NUMBER: 08/415,751
 ; EARLIER FILING DATE: 1995-04-03
 ; NUMBER OF SEQ ID NOS: 15
 ; SOFTWARE: PatentIn Ver. 2.0
 ; SEQ ID NO 11
 ; LENGTH: 124
 ; TYPE: PRT
 ; ORGANISM: Cryptosporidium parvum
 ; FEATURE:
 ; OTHER INFORMATION: mutant/variant of SEQ ID NO:5
 US-08-700-651-11

Query Match 3.1%; Score 13; DB 3; Length 124;
 Best Local Similarity 100.0%; Pred. No. 0.00028;
 Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 323 TTTT TTTT TTTT TTTT 335
 Db 33 TTTT TTTT TTTT TTTT 45

RESULT 37
 US-08-928-361B-16
 ; Sequence 16, Application US/08928361B
 ; Patent No. 6071518
 ; GENERAL INFORMATION:
 ; APPLICANT: Petersen, Carolyn
 ; TITLE OF INVENTION: PEPTIDES, POLYPEPTIDES, GLYCOPROTEINS,
 ; TITLE OF INVENTION: THEIR FUNCTIONAL MUTANTS, VARIANTS, ANALOGS AND FRAGMENTS
 ; TITLE OF INVENTION: FOR TREATMENT AND DETECTION/DIAGNOSIS OF CRYPTOSPORIDIUM
 ; TITLE OF INVENTION: SPECIES INFECTIONS
 ; NUMBER OF SEQUENCES: 30
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: PETERS, VERNY, JONES & BIKSA
 ; STREET: 385 Sherman Avenue, Suite 6
 ; CITY: Palo Alto
 ; STATE: CA
 ; COUNTRY: USA
 ; ZIP: 94306-1840
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: PatentIn Release #1.0, Version #1.30
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/928,361B
 ; FILING DATE: 12-SEP-1997
 ; CLASSIFICATION:
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: US 60/026,062

```
; FILING DATE: 13-SEP-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: VERNY, Hana
; REGISTRATION NUMBER: 30,518
; REFERENCE/DOCKET NUMBER: 480.76-1(HV)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 650-324-1677
; TELEFAX: 650-324-1678
; INFORMATION FOR SEQ ID NO: 16:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 124 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-928-361B-16

Query Match          3.1%; Score 13; DB 3; Length 124;
Best Local Similarity 100.0%; Pred. No. 0.00028;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 323 TTTTNTTTTTTTT 335
Db 33 TTTTNTTTTTTTT 45

RESULT 38
US-09-588-995A-16
; Sequence 16, Application US/09588995A
; Patent No. 6514697
; GENERAL INFORMATION:
; APPLICANT: PETERSEN, CAROLYN
; APPLICANT: BARNES, DEBRA A.
; APPLICANT: NELSON, RICHARD C.
; APPLICANT: GUT, JIRI
; TITLE OF INVENTION: METHODS FOR DETECTION OF CRYPTOSPORIDIUM SPECIES AND
; TITLE OF INVENTION: ISOLATES AND FOR DIAGNOSIS OF CRYPTOSPORIDIUM
; FILE OF INVENTION: INFECTIONS
; FILE REFERENCE: 480.19-5
; CURRENT APPLICATION NUMBER: US/09/588,995A
; CURRENT FILING DATE: 2000-06-06
; PRIOR APPLICATION NUMBER: 08/827,171
; PRIOR FILING DATE: 1997-03-27
; PRIOR APPLICATION NUMBER: 08/928,361
; PRIOR FILING DATE: 1997-09-12
; PRIOR APPLICATION NUMBER: 08/700,651
; PRIOR FILING DATE: 1996-08-14
; PRIOR APPLICATION NUMBER: 08/415,751
; PRIOR FILING DATE: 1995-04-03
; NUMBER OF SEQ ID NOS: 115
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 16
; LENGTH: 124
; TYPE: PRT
; ORGANISM: Cryptosporidium parvum
US-09-588-995A-16

Query Match          3.1%; Score 13; DB 4; Length 124;
Best Local Similarity 100.0%; Pred. No. 0.00028;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 323 TTTTNTTTTTTTT 335
Db 33 TTTTNTTTTTTTT 45

RESULT 39
US-08-700-651-7
; Sequence 7, Application US/08700651B
; Patent No. 6015882
; GENERAL INFORMATION:
; APPLICANT: PETERSEN, CAROLYN
; APPLICANT: LEECH, JAMES
```

```
; APPLICANT: NELSON, RICHARD, C.
; APPLICANT: GUT, JIRI
; TITLE OF INVENTION: VACCINES, ANTIBODIES, PROTEINS, GLYCOPROTEINS, DNAS AND RNAS
; TITLE OF INVENTION: FOR PROPHYLAXIS AND TREATMENT OF Cryptosporidium parvum
; TITLE OF INVENTION: INFECTIONS
; FILE REFERENCE: 480.19-4 (HV)
; CURRENT APPLICATION NUMBER: US/08/700,651B
; CURRENT FILING DATE: 1997-08-14
; EARLIER APPLICATION NUMBER: 08/415,751
; EARLIER FILING DATE: 1995-04-03
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 7
; LENGTH: 128
; TYPE: PRT
; ORGANISM: Cryptosporidium parvum
; FEATURE:
; OTHER INFORMATION: mutant/variant of SEQ ID NO:5
US-08-700-651-7

Query Match          3.1%; Score 13; DB 3; Length 128;
Best Local Similarity 100.0%; Pred. No. 0.00028;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 323 TTTTNTTTTTTTT 335
Db 37 TTTTNTTTTTTTT 49

RESULT 40
US-08-928-361B-12
; Sequence 12, Application US/08928361B
; Patent No. 6071518
; GENERAL INFORMATION:
; APPLICANT: Petersen, Carolyn
; TITLE OF INVENTION: PEPTIDES, POLYPEPTIDES, GLYCOPROTEINS,
; TITLE OF INVENTION: THEIR FUNCTIONAL MUTANTS, VARIANTS, ANALOGS AND FRAGMENTS
; TITLE OF INVENTION: FOR TREATMENT AND DETECTION/DIAGNOSIS OF CRYPTOSPORIDIUM
; FILE OF INVENTION: SPECIES INFECTIONS
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: PETERS, VERNY, JONES & BIKSA
; STREET: 385 Sherman Avenue, Suite 6
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94306-1840
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/928,361B
; FILING DATE: 12-SEP-1997
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/026,062
; FILING DATE: 13-SEP-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: VERNY, Hana
; REGISTRATION NUMBER: 30,518
; REFERENCE/DOCKET NUMBER: 480.76-1 (HV)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 650-324-1677
; TELEFAX: 650-324-1678
; INFORMATION FOR SEQ ID NO: 12:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 128 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
```


GENERAL INFORMATION:
; APPLICANT: PETERSEN, CAROLYN
; APPLICANT: BARNES, DEBRA A.
; APPLICANT: NELSON, RICHARD C.
; APPLICANT: GUT, JIRI
; TITLE OF INVENTION: METHODS FOR DETECTION OF CRYPTOSPORIDIUM SPECIES AND
; TITLE OF INVENTION: ISOLATES AND FOR DIAGNOSIS OF CRYPTOSPORIDIUM
; TITLE OF INVENTION: INFECTIONS
; FILE REFERENCE: 480.19-5
; CURRENT APPLICATION NUMBER: US/09/588,995A
; CURRENT FILING DATE: 2000-06-06
; PRIOR APPLICATION NUMBER: 08/827,171
; PRIOR FILING DATE: 1997-03-27
; PRIOR APPLICATION NUMBER: 08/928,361
; PRIOR FILING DATE: 1997-09-12
; PRIOR APPLICATION NUMBER: 08/700,651
; PRIOR FILING DATE: 1996-08-14
; PRIOR APPLICATION NUMBER: 08/415,751
; PRIOR FILING DATE: 1995-04-03
; NUMBER OF SEQ ID NOS: 115
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 13
; LENGTH: 130
; TYPE: PRT
; ORGANISM: Cryptosporidium parvum
US-09-588-995A-13

Query Match 3.1%; Score 13; DB 4; Length 130;
Best Local Similarity 100.0%; Pred. No. 0.00029;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 323 TTTT TTTT TTTT TTTT 335
Db 39 TTTT TTTT TTTT 51

RESULT 45
US-08-700-651-10
; Sequence 10, Application US/08700651B
; Patent No. 6015882
; GENERAL INFORMATION:
; APPLICANT: PETERSEN, CAROLYN
; APPLICANT: LEECH, JAMES
; APPLICANT: NELSON, RICHARD, C.
; APPLICANT: GUT, JIRI
; TITLE OF INVENTION: VACCINES, ANTIBODIES, PROTEINS, GLYCOPROTEINS, DNAS AND RNAS
; TITLE OF INVENTION: FOR PROPHYLAXIS AND TREATMENT OF Cryptosporidium parvum
; TITLE OF INVENTION: INFECTIONS
; FILE REFERENCE: 480.19-4(HV)
; CURRENT APPLICATION NUMBER: US/08/700,651B
; CURRENT FILING DATE: 1997-08-14
; EARLIER APPLICATION NUMBER: 08/415,751
; EARLIER FILING DATE: 1995-04-03
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 10
; LENGTH: 138
; TYPE: PRT
; ORGANISM: Cryptosporidium parvum
; FEATURE:
; OTHER INFORMATION: mutant/variant of SEQ ID NO:5
US-08-700-651-10

Query Match 3.1%; Score 13; DB 3; Length 138;
Best Local Similarity 100.0%; Pred. No. 0.00031;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 323 TTTT TTTT TTTT TTTT 335
Db 47 TTTT TTTT TTTT 59

RESULT 46
US-08-700-651-10
; Sequence 10, Application US/08700651B
; Patent No. 6015882
; GENERAL INFORMATION:
; APPLICANT: PETERSEN, CAROLYN
; APPLICANT: LEECH, JAMES
; APPLICANT: NELSON, RICHARD, C.
; APPLICANT: GUT, JIRI
; TITLE OF INVENTION: VACCINES, ANTIBODIES, PROTEINS, GLYCOPROTEINS, DNAS AND RNAS
; TITLE OF INVENTION: FOR PROPHYLAXIS AND TREATMENT OF Cryptosporidium parvum
; TITLE OF INVENTION: INFECTIONS
; FILE REFERENCE: 480.19-4(HV)
; CURRENT APPLICATION NUMBER: US/08/700,651B
; CURRENT FILING DATE: 1997-08-14
; EARLIER APPLICATION NUMBER: 08/415,751
; EARLIER FILING DATE: 1995-04-03
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 10
; LENGTH: 138
; TYPE: PRT
; ORGANISM: Cryptosporidium parvum
; FEATURE:
; OTHER INFORMATION: mutant/variant of SEQ ID NO:5
US-08-700-651-10

US-08-928-361B-15
; Sequence 15, Application US/08928361B
; Patent No. 6071518
; GENERAL INFORMATION:
; APPLICANT: Petersen, Carolyn
; TITLE OF INVENTION: PEPTIDES, POLYPEPTIDES, GLYCOPROTEINS,
; TITLE OF INVENTION: THEIR FUNCTIONAL MUTANTS, VARIANTS, ANALOGS AND FRAGMENTS
; TITLE OF INVENTION: FOR TREATMENT AND DETECTION/DIAGNOSIS OF CRYPTOSPORIDIUM
; TITLE OF INVENTION: SPECIES INFECTIONS
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: PETERS, VERNY, JONES & BIKSA
; STREET: 385 Sherman Avenue, Suite 6
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94306-1840
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/928,361B
; FILING DATE: 12-SEP-1997
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/026,062
; FILING DATE: 13-SEP-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Verny, Hana
; REGISTRATION NUMBER: 30,518
; REFERENCE/DOCKET NUMBER: 480.76-1 (HV)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 650-324-1677
; TELEFAX: 650-324-1678
; INFORMATION FOR SEQ ID NO: 15:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 138 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-928-361B-15

Query Match 3.1%; Score 13; DB 3; Length 138;
Best Local Similarity 100.0%; Pred. No. 0.00031;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 323 TTTT TTTT TTTT TTTT 335
Db 47 TTTT TTTT TTTT 59

RESULT 47
US-09-588-995A-15
; Sequence 15, Application US/09588995A
; Patent No. 6514697
; GENERAL INFORMATION:
; APPLICANT: PETERSEN, CAROLYN
; APPLICANT: BARNES, DEBRA A.
; APPLICANT: NELSON, RICHARD C.
; APPLICANT: GUT, JIRI
; TITLE OF INVENTION: METHODS FOR DETECTION OF CRYPTOSPORIDIUM SPECIES AND
; TITLE OF INVENTION: ISOLATES AND FOR DIAGNOSIS OF CRYPTOSPORIDIUM
; TITLE OF INVENTION: INFECTIONS
; FILE REFERENCE: 480.19-5
; CURRENT APPLICATION NUMBER: US/09/588,995A
; CURRENT FILING DATE: 2000-06-06
; PRIOR APPLICATION NUMBER: 08/827,171
; PRIOR FILING DATE: 1997-03-27
; PRIOR APPLICATION NUMBER: 08/928,361
; PRIOR FILING DATE: 1997-09-12

; PRIOR APPLICATION NUMBER: 08/700,651
; PRIOR FILING DATE: 1996-08-14
; PRIOR APPLICATION NUMBER: 08/415,751
; PRIOR FILING DATE: 1995-04-03
; NUMBER OF SEQ ID NOS: 115
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 15
; LENGTH: 138
; TYPE: PRT
; ORGANISM: Cryptosporidium parvum
US-09-588-995A-15

Query Match 3.1%; Score 13; DB 4; Length 138;
Best Local Similarity 100.0%; Pred. No. 0.00031; Indels 0; Gaps 0;
Matches 13; Conservative 0; Mismatches 0;

Qy 323 TTTT TTTT TTTT 335
|||||
Db 47 TTTT TTTT TTTT 59
|||||

RESULT 48
US-08-928-361B-18
; Sequence 18, Application US/08928361B
; Patent No. 6071518
; GENERAL INFORMATION:
; APPLICANT: Petersen, Carolyn
; TITLE OF INVENTION: PEPTIDES, POLYPEPTIDES, GLYCOPROTEINS,
; TITLE OF INVENTION: THEIR FUNCTIONAL MUTANTS, VARIANTS, ANALOGS AND FRAGMENTS
; TITLE OF INVENTION: FOR TREATMENT AND DETECTION/DIAGNOSIS OF CRYPTOSPORIDIUM
; TITLE OF INVENTION: SPECIES INFECTIONS
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: PETERS, VERNY, JONES & BIKSA
; STREET: 385 Sherman Avenue, Suite 6
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94306-1840
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/928,361B
; FILING DATE: 12-SEP-1997
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/026,062
; FILING DATE: 13-SEP-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: VERNY, Hana
; REGISTRATION NUMBER: 30,518
; REFERENCE/DOCKET NUMBER: 480.76-1 (HV)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 650-324-1677
; TELEFAX: 650-324-1678
; INFORMATION FOR SEQ ID NO: 18:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 150 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-928-361B-18

Query Match 3.1%; Score 13; DB 3; Length 150;
Best Local Similarity 100.0%; Pred. No. 0.00033;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 323 TTTT TTTT TTTT 335
|||||

Db 62 TTTT TTTT TTTT 74
|||||

RESULT 49
US-09-588-995A-18
; Sequence 18, Application US/09588995A
; Patent No. 6514697
; GENERAL INFORMATION:
; APPLICANT: PETERSEN, CAROLYN
; APPLICANT: BARNES, DEBRA A.
; APPLICANT: NELSON, RICHARD C.
; APPLICANT: GUT, JIRI
; TITLE OF INVENTION: METHODS FOR DETECTION OF CRYPTOSPORIDIUM SPECIES AND
; TITLE OF INVENTION: ISOLATES AND FOR DIAGNOSIS OF CRYPTOSPORIDIUM
; TITLE OF INVENTION: INFECTIONS
; FILE REFERENCE: 480.19-5
; CURRENT APPLICATION NUMBER: US/09/588,995A
; CURRENT FILING DATE: 2000-06-06
; PRIOR APPLICATION NUMBER: 08/827,171
; PRIOR FILING DATE: 1997-03-27
; PRIOR APPLICATION NUMBER: 08/928,361
; PRIOR FILING DATE: 1997-09-12
; PRIOR APPLICATION NUMBER: 08/700,651
; PRIOR FILING DATE: 1996-08-14
; PRIOR APPLICATION NUMBER: 08/415,751
; PRIOR FILING DATE: 1995-04-03
; NUMBER OF SEQ ID NOS: 115
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 18
; LENGTH: 150
; TYPE: PRT
; ORGANISM: Cryptosporidium parvum
US-09-588-995A-18

Query Match 3.1%; Score 13; DB 4; Length 150;
Best Local Similarity 100.0%; Pred. No. 0.00033; Indels 0; Gaps 0;
Matches 13; Conservative 0; Mismatches 0;

Qy 323 TTTT TTTT TTTT 335
|||||
Db 62 TTTT TTTT TTTT 74
|||||

RESULT 50
US-09-248-796A-21631
; Sequence 21631, Application US/09248796A
; Patent No. 6747137
; GENERAL INFORMATION:
; APPLICANT: Keith Weinstock et al

; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICAN;
; TITLE OF INVENTION: FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.132
; CURRENT APPLICATION NUMBER: US/09/248,796A
; CURRENT FILING DATE: 1999-02-12
; PRIOR APPLICATION NUMBER: US 60/074,725
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: US 60/096,409
; PRIOR FILING DATE: 1998-08-13
; NUMBER OF SEQ ID NOS: 28208
; SEQ ID NO 21631
; LENGTH: 159
; TYPE: PRT
; ORGANISM: Candida albicans
US-09-248-796A-21631

Query Match 3.1%; Score 13; DB 4; Length 159;
Best Local Similarity 100.0%; Pred. No. 0.00035;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 324 TTTT TTTT TTTT 336
|||||
Db 52 TTTT TTTT TTTT 64
|||||

RESULT 51
US-08-700-651-13
; Sequence 13, Application US/08700651B
; Patent No. 6015882
; GENERAL INFORMATION:
; APPLICANT: PETERSEN, CAROLYN
; APPLICANT: LEECH, JAMES
; APPLICANT: NELSON, RICHARD, C.
; APPLICANT: GUT, JIRI
; TITLE OF INVENTION: VACCINES, ANTIBODIES, PROTEINS, GLYCOPROTEINS, DNAS AND RNAS
; TITLE OF INVENTION: FOR PROPHYLAXIS AND TREATMENT OF Cryptosporidium parvum
; TITLE OF INVENTION: INFECTIONS
; FILE REFERENCE: 480.19-4 (HV)
; CURRENT APPLICATION NUMBER: US/08/700, 651B
; CURRENT FILING DATE: 1997-08-14
; EARLIER APPLICATION NUMBER: 08/415, 751
; EARLIER FILING DATE: 1995-04-03
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 13
; LENGTH: 162
; TYPE: PRT
; ORGANISM: Cryptosporidium parvum
; FEATURE:
; OTHER INFORMATION: mutant/variant of SEQ ID NO:5
US-08-700-651-13

Query Match 3.1%; Score 13; DB 3; Length 162;
Best Local Similarity 100.0%; Pred. No. 0.00035;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 323 TTTT TTTT TTTT TTTT 335
Db 76 TTTT TTTT TTTT TTTT 88

RESULT 52
US-09-248-796A-16058
; Sequence 16058, Application US/09248796A
; Patent No. 6747137
; GENERAL INFORMATION:
; APPLICANT: Keith Weinstock et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICANS
; TITLE OF INVENTION: FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.132
; CURRENT APPLICATION NUMBER: US/09/248,796A
; CURRENT FILING DATE: 1999-02-12
; PRIOR APPLICATION NUMBER: US 60/074,725
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: US 60/096,409
; PRIOR FILING DATE: 1998-08-13
; NUMBER OF SEQ ID NOS: 28208
; SEQ ID NO 16058
; LENGTH: 207
; TYPE: PRT
; ORGANISM: Candida albicans
; FEATURE:
; NAME/KEY: UNSURE
; LOCATION: (204)
; OTHER INFORMATION: Identity of amino acid sequences at the above locations are unknown
US-09-248-796A-16058

Query Match 3.1%; Score 13; DB 4; Length 207;
Best Local Similarity 100.0%; Pred. No. 0.00044;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 323 TTTT TTTT TTTT TTTT 335
Db 61 TTTT TTTT TTTT TTTT 73

RESULT 53

US-09-060-767B-3
; Sequence 3, Application US/09060767B
; Patent No. 6720152
; GENERAL INFORMATION:
; APPLICANT: Weil, Gary
; APPLICANT: Chandrashekar, Ramaswamy
; TITLE OF INVENTION: Diagnosis of Histoplasmosis Using Antigens Specific for
; TITLE OF INVENTION: H. capsulatum
; FILE REFERENCE: BJCH 9986
; CURRENT APPLICATION NUMBER: US/09/060,767B
; CURRENT FILING DATE: 1998-04-15
; PRIOR APPLICATION NUMBER: 60/043,332
; PRIOR FILING DATE: 1997-04-15
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 3
; LENGTH: 211
; TYPE: PRT
; ORGANISM: Histoplasma capsulatum
US-09-060-767B-3

Query Match 3.1%; Score 13; DB 4; Length 211;
Best Local Similarity 100.0%; Pred. No. 0.00045;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 320 PPPT TTTT TTTT TTTT 332
Db 37 PPPT TTTT TTTT TTTT 49

RESULT 54
US-09-248-796A-17391
; Sequence 17391, Application US/09248796A
; Patent No. 6747137
; GENERAL INFORMATION:
; APPLICANT: Keith Weinstock et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICANS
; TITLE OF INVENTION: FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.132
; CURRENT APPLICATION NUMBER: US/09/248,796A
; CURRENT FILING DATE: 1999-02-12
; PRIOR APPLICATION NUMBER: US 60/074,725
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: US 60/096,409
; PRIOR FILING DATE: 1998-08-13
; NUMBER OF SEQ ID NOS: 28208
; SEQ ID NO 17391
; LENGTH: 216
; TYPE: PRT
; ORGANISM: Candida albicans
; FEATURE:
; NAME/KEY: UNSURE
; LOCATION: (212)
; OTHER INFORMATION: Identity of amino acid sequences at the above locations are unknown
US-09-248-796A-17391

Query Match 3.1%; Score 13; DB 4; Length 216;
Best Local Similarity 100.0%; Pred. No. 0.00046;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 323 TTTT TTTT TTTT TTTT 335
Db 74 TTTT TTTT TTTT TTTT 86

RESULT 55
US-09-248-796A-24111
; Sequence 24111, Application US/09248796A
; Patent No. 6747137
; GENERAL INFORMATION:
; APPLICANT: Keith Weinstock et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICANS
; TITLE OF INVENTION: FOR DIAGNOSTICS AND THERAPEUTICS

MM
JUN 1968

```
RESULT 60
US-09-778-510-6
; Sequence 6, Application US/09778510
; Patent No. 6512095
; GENERAL INFORMATION:
; APPLICANT: Baum, Peter
; TITLE OF INVENTION: Molecules Designated B7L1
; FILE REFERENCE: 2844-US
; CURRENT APPLICATION NUMBER: US/09/778,510
; CURRENT FILING DATE: 2001-02-07
; PRIOR APPLICATION NUMBER: PCT/US99/17906
; PRIOR FILING DATE: 1999-08-05
; PRIOR APPLICATION NUMBER: 60/095,663
; PRIOR FILING DATE: 1998-08-07
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 6
; LENGTH: 398
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-778-510-6

Query Match 3.1%; Score 13; DB 4; Length 398;
Best Local Similarity 100.0%; Pred. No. 0.00081;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 401 DADTAIINAEQQ 413
Db 375 DADTAIINAEQQ 387

RESULT 61
US-09-907-794A-84
; Sequence 84, Application US/09907794A
; Patent No. 6635468
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnovers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kijavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/907,794A
; CURRENT FILING DATE: 2001-07-17
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
```

```
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 84
; LENGTH: 398
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-907-794A-84

Query Match 3.1%; Score 13; DB 4; Length 398;
Best Local Similarity 100.0%; Pred. No. 0.00081;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 401 DADTAIINAEQQ 413
Db 375 DADTAIINAEQQ 387

RESULT 62
US-09-905-125A-84
; Sequence 84, Application US/09905125A
; Patent No. 6664376
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnovers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kijavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
```


APPLICANT: Wood, William, I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
TITLE OF INVENTION: Acids Encoding the Same
FILE REFERENCE: 10466-14
CURRENT APPLICATION NUMBER: US/09/905/125A
CURRENT FILING DATE: 2001-07-12
PRIOR APPLICATION NUMBER: PCT/US00/04414
PRIOR FILING DATE: 2000-02-22
PRIOR APPLICATION NUMBER: US 60/143,048
PRIOR FILING DATE: 1999-07-07
PRIOR APPLICATION NUMBER: US 60/145,698
PRIOR FILING DATE: 1999-07-26
PRIOR APPLICATION NUMBER: US 60/146,222
PRIOR FILING DATE: 1999-07-28
PRIOR APPLICATION NUMBER: PCT/US99/20594
PRIOR FILING DATE: 1999-09-08
PRIOR APPLICATION NUMBER: PCT/US99/20944
PRIOR FILING DATE: 1999-09-13
PRIOR APPLICATION NUMBER: PCT/US99/21090
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/21547
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/23089
PRIOR FILING DATE: 1999-10-05
PRIOR APPLICATION NUMBER: PCT/US99/28214
PRIOR FILING DATE: 1999-11-29
PRIOR APPLICATION NUMBER: PCT/US99/28313
PRIOR FILING DATE: 1999-11-30
PRIOR APPLICATION NUMBER: PCT/US99/28564
PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/28565
PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/30095
PRIOR FILING DATE: 1999-12-16
PRIOR APPLICATION NUMBER: PCT/US99/30911
PRIOR FILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US99/30999
PRIOR FILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US00/00219
PRIOR FILING DATE: 2000-01-05
NUMBER OF SEQ ID NOS: 423
SEQ ID NO 84
LENGTH: 398
TYPE: PRT
ORGANISM: Homo sapiens
US-09-905-125A-84

Query Match 3.1%; Score 13; DB 4; Length 398;
Best Local Similarity 100.0%; Pred. No. 0.00081;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 401 DADTAIINAEQQ 413
| | | | | | | | | |
Db 375 DADTAIINAEQQ 387

RESULT 63
US-09-902-775A-84
Sequence 84, Application US/09902775A
Patent No. 6686451
GENERAL INFORMATION:
APPLICANT: Genentech, Inc.
APPLICANT: Ashkenazi, Avi
APPLICANT: Botstein, David
APPLICANT: Deenoyers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Filvaroff, Ellen
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, A.

APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, Christopher J.
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth, J.
APPLICANT: Kljavin, Ivar J.
APPLICANT: Mather, Jennie P.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William, I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
TITLE OF INVENTION: Acids Encoding the Same
FILE REFERENCE: 10466-14
CURRENT APPLICATION NUMBER: US/09/902/775A
CURRENT FILING DATE: 2001-07-10
PRIOR APPLICATION NUMBER: PCT/US00/04414
PRIOR FILING DATE: 2000-02-22
PRIOR APPLICATION NUMBER: US 60/143,048
PRIOR FILING DATE: 1999-07-07
PRIOR APPLICATION NUMBER: US 60/145,698
PRIOR FILING DATE: 1999-07-26
PRIOR APPLICATION NUMBER: US 60/146,222
PRIOR FILING DATE: 1999-07-28
PRIOR APPLICATION NUMBER: PCT/US99/20594
PRIOR FILING DATE: 1999-09-08
PRIOR APPLICATION NUMBER: PCT/US99/20944
PRIOR FILING DATE: 1999-09-13
PRIOR APPLICATION NUMBER: PCT/US99/21090
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/21547
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/23089
PRIOR FILING DATE: 1999-10-05
PRIOR APPLICATION NUMBER: PCT/US99/28214
PRIOR FILING DATE: 1999-11-29
PRIOR APPLICATION NUMBER: PCT/US99/28313
PRIOR FILING DATE: 1999-11-30
PRIOR APPLICATION NUMBER: PCT/US99/28564
PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/28565
PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/30095
PRIOR FILING DATE: 1999-12-16
PRIOR APPLICATION NUMBER: PCT/US99/30911
PRIOR FILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US99/30999
PRIOR FILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US00/00219
PRIOR FILING DATE: 2000-01-05
NUMBER OF SEQ ID NOS: 423
SEQ ID NO 84
LENGTH: 398
TYPE: PRT
ORGANISM: Homo sapiens
US-09-902-775A-84

Query Match 3.1%; Score 13; DB 4; Length 398;
Best Local Similarity 100.0%; Pred. No. 0.00081;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 401 DADTAIINAEQQ 413
| | | | | | | | | |
Db 375 DADTAIINAEQQ 387

RESULT 64
US-09-906-700-84
Sequence 84, Application US/09906700
Patent No. 6723535
GENERAL INFORMATION:

```

; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnovers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/906,700
; CURRENT FILING DATE: 2000-09-18
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 84
; LENGTH: 398
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-906-700-84

Query Match      3.1%; Score 13; DB 4; Length 398;
Best Local Similarity 100.0%; Pred. No. 0.00081;

; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnovers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/906,700
; CURRENT FILING DATE: 2000-09-18
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 84
; LENGTH: 398
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-906-700-84

Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 401 DADTAIINAEGGQ 413
Db 375 DADTAIINAEGGQ 387

RESULT 65
US-09-903-603A-84
; Sequence 84, Application US/09903603A
; Patent No. 6767995
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnovers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: GNE.1618P2C12
; CURRENT APPLICATION NUMBER: US/09/903,603A
; CURRENT FILING DATE: 2001-07-11
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
```

; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 84
; LENGTH: 398
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-903-603A-84

Query Match 3.1%; Score 13; DB 4; Length 398;
Best Local Similarity 100.0%; Pred. No. 0.00081;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 401 DADTAIINAEQQ 413
| | | | | | | | | |
Db 375 DADTAIINAEQQ 387

RESULT 66

US-09-904-920A-84
; Sequence 84, Application US/09904920A
; Patent No. 6806352

; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.

; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnovers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.

; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.

; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14

; CURRENT APPLICATION NUMBER: US/09/904,920A

; CURRENT FILING DATE: 2001-07-13

; PRIOR APPLICATION NUMBER: PCT/US00/04414

; PRIOR FILING DATE: 2000-02-22

; PRIOR APPLICATION NUMBER: US 60/143,048

; PRIOR FILING DATE: 1999-07-07

; PRIOR APPLICATION NUMBER: US 60/145,698

; PRIOR FILING DATE: 1999-07-26

; PRIOR APPLICATION NUMBER: US 60/146,222

; PRIOR FILING DATE: 1999-07-28

; PRIOR APPLICATION NUMBER: PCT/US99/20594

; PRIOR FILING DATE: 1999-09-08

; PRIOR APPLICATION NUMBER: PCT/US99/20944

; PRIOR FILING DATE: 1999-09-13

; PRIOR APPLICATION NUMBER: PCT/US99/21090

; PRIOR FILING DATE: 1999-09-15

; PRIOR APPLICATION NUMBER: PCT/US99/21547

; PRIOR FILING DATE: 1999-09-15

; PRIOR APPLICATION NUMBER: PCT/US99/23089

; PRIOR FILING DATE: 1999-10-05

; PRIOR APPLICATION NUMBER: PCT/US99/28214

; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 84
; LENGTH: 398
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-904-920A-84

Query Match 3.1%; Score 13; DB 4; Length 398;
Best Local Similarity 100.0%; Pred. No. 0.00081;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 401 DADTAIINAEQQ 413
| | | | | | | | | |
Db 375 DADTAIINAEQQ 387

RESULT 67

US-09-909-064-84

; Sequence 84, Application US/09909064

; Patent No. 6818449

; GENERAL INFORMATION:

; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnovers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.

; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.

; APPLICANT: Kljavin, Ivar J.

; APPLICANT: Mather, Jennie P.

; APPLICANT: Pan, James

; APPLICANT: Paoni, Nicholas F.

; APPLICANT: Roy, Margaret Ann

; APPLICANT: Stewart, Timothy A.

; APPLICANT: Tumas, Daniel

; APPLICANT: Williams, P. Mickey

; APPLICANT: Wood, William, I.

; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14

; CURRENT APPLICATION NUMBER: US/09/909,064

; CURRENT FILING DATE: 2001-07-18

; PRIOR APPLICATION NUMBER: PCT/US00/04414

; PRIOR FILING DATE: 2000-02-22

; PRIOR APPLICATION NUMBER: US 60/143,048

; PRIOR FILING DATE: 1999-07-07

; PRIOR APPLICATION NUMBER: US 60/145,698

; PRIOR FILING DATE: 1999-07-26

; PRIOR APPLICATION NUMBER: US 60/146,222

```
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 84
; LENGTH: 398
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-909-064-84
```

```
Query Match          3.1%; Score 13; DB 4; Length 398;
Best Local Similarity 100.0%; Pred. No. 0.00081;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 401 DADTAIINAEQQ 413
Db 375 DADTAIINAEQQ 387
|||||
```

```
RESULT 68
US-09-905-381A-84
; Sequence 84, Application US/09905381A
; Patent No. 6818746
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnovers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kijavini, Ivana J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
```

```
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/905,381A
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 84
; LENGTH: 398
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-905-381A-84
```

```
Query Match          3.1%; Score 13; DB 4; Length 398;
Best Local Similarity 100.0%; Pred. No. 0.00081;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 401 DADTAIINAEQQ 413
Db 375 DADTAIINAEQQ 387
|||||
```

```
RESULT 69
US-09-906-618-84
; Sequence 84, Application US/09906618
; Patent No. 6828146
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnovers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
```

APPLICANT: Grimaldi, Christopher J.
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth, J.
APPLICANT: Kijavin, Ivar J.
APPLICANT: Mather, Jennie P.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William, I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: 10466-14
CURRENT APPLICATION NUMBER: US/09/906.618
CURRENT FILING DATE: 2001-07-16
PRIOR APPLICATION NUMBER: PCT/US00/04414
PRIOR FILING DATE: 2000-02-22
PRIOR APPLICATION NUMBER: US 60/143,048
PRIOR FILING DATE: 1999-07-07
PRIOR APPLICATION NUMBER: US 60/145,698
PRIOR FILING DATE: 1999-07-26
PRIOR APPLICATION NUMBER: US 60/146,222
PRIOR FILING DATE: 1999-07-28
PRIOR APPLICATION NUMBER: PCT/US99/20594
PRIOR FILING DATE: 1999-09-08
PRIOR APPLICATION NUMBER: PCT/US99/20944
PRIOR FILING DATE: 1999-09-13
PRIOR APPLICATION NUMBER: PCT/US99/21090
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/21547
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/23089
PRIOR FILING DATE: 1999-10-05
PRIOR APPLICATION NUMBER: PCT/US99/28214
PRIOR FILING DATE: 1999-11-29
PRIOR APPLICATION NUMBER: PCT/US99/28313
PRIOR FILING DATE: 1999-11-30
PRIOR APPLICATION NUMBER: PCT/US99/28564
PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/28565
PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/30095
PRIOR FILING DATE: 1999-12-16
PRIOR APPLICATION NUMBER: PCT/US99/30911
PRIOR FILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US99/30999
PRIOR FILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US00/00219
PRIOR FILING DATE: 2000-01-05
NUMBER OF SEQ ID NOS: 423
SEQ ID NO 84
LENGTH: 398
TYPE: PRT
ORGANISM: Homo sapiens
US-09-906-618-84

Query Match 3.1%; Score 13; DB 4; Length 398;
Best Local Similarity 100.0%; Pred. No. 0.00081;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 401 DADTAIINAEQQ 413
Db 375 DADTAIINAEQQ 387

RESULT 70
US-08-659-984A-1
Sequence 1, Application US/08659984A
Patent No. 5942400
GENERAL INFORMATION:
APPLICANT: Anderson, John P.

APPLICANT: Sinha, Sukanto
APPLICANT: Jacobson-Croak, Kirsten L.
TITLE OF INVENTION: Assays for Detecting Beta-Secretase
NUMBER OF SEQUENCES: 21
CORRESPONDENCE ADDRESS:
ADDRESSEE: Townsend and Townsend and Crew LLP
STREET: Two Embarcadero Ctr., 8th Floor
CITY: San Francisco
STATE: California
COUNTRY: USA
ZIP: 94111-3834
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/659,984A
FILING DATE: 07-JUN-1996
CLASSIFICATION: 436
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/485,152
FILING DATE: 07-JUN-1995
ATTORNEY/AGENT INFORMATION:
NAME: Heslin, James M.
REGISTRATION NUMBER: 29,541
REFERENCE/DOCKET NUMBER: 15270-002810US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-326-2400
TELEFAX: 415-326-2422
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 421 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-659-984A-1

Query Match 3.1%; Score 13; DB 2; Length 421;
Best Local Similarity 100.0%; Pred. No. 0.00085;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 285 LNKTDNGTYRCEA 297
Db 272 LNKTDNGTYRCEA 284

RESULT 71
US-08-660-531-1
Sequence 1, Application US/08660531
Patent No. 6221645
GENERAL INFORMATION:
APPLICANT: Chrysler, Susanna M.S.
APPLICANT: Sinha, Sukanto
APPLICANT: Keim, Pamela S.
APPLICANT: Anderson, John P.
TITLE OF INVENTION: Beta-Secretase
NUMBER OF SEQUENCES: 21
CORRESPONDENCE ADDRESS:
ADDRESSEE: Townsend and Townsend and Crew LLP
STREET: Two Embarcadero Ctr., 8th Floor
CITY: San Francisco
STATE: California
COUNTRY: USA
ZIP: 94111-3834
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/660,531
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/480,498
FILING DATE: 07-JUN-1995
ATTORNEY/AGENT INFORMATION:
NAME: Heelin, James M.
REGISTRATION NUMBER: 29,541
REFERENCE/DOCKET NUMBER: 15270-002210US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-326-2400
TELEFAX: 415-326-2422
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 421 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-660-531-1

Query Match 3.1%; Score 13; DB 3; Length 421;
Best Local Similarity 100.0%; Pred. No. 0.00085;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 285 LNKTDNGTYRCEA 297
|||||

Db 272 LNKTDNGTYRCEA 284
|||||

RESULT 72

US-09-778-510-2
Sequence 2, Application US/09778510
Patent No. 6512095
GENERAL INFORMATION:
APPLICANT: Baum, Peter
FILE REFERENCE: 2844-US
Molecules Designated B7L1
CURRENT APPLICATION NUMBER: US/09/778,510
PRIOR FILING DATE: 2001-02-07
PRIOR APPLICATION NUMBER: PCT/US99/17906
PRIOR FILING DATE: 1999-08-05
PRIOR APPLICATION NUMBER: 60/095,663
PRIOR FILING DATE: 1998-08-07
NUMBER OF SEQ ID NOS: 22
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 2
LENGTH: 432
TYPE: PRT
ORGANISM: Homo sapien
US-09-778-510-2

Query Match 3.1%; Score 13; DB 4; Length 432;
Best Local Similarity 100.0%; Pred. No. 0.00087;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 401 DADTAIINAEQQ 413
|||||

Db 409 DADTAIINAEQQ 421
|||||

RESULT 73

US-08-659-984A-5
Sequence 5, Application US/08659984A
Patent No. 5942400
GENERAL INFORMATION:
APPLICANT: Anderson, John P.
APPLICANT: Sinha, Sukanto
APPLICANT: Jacobson-Croak, Kirsten L.
TITLE OF INVENTION: Assays for Detecting Beta-Secretase
INHIBITION
NUMBER OF SEQUENCES: 21

CORRESPONDENCE ADDRESS:
ADDRESSEE: Townsend and Townsend and Crew LLP
STREET: Two Embarcadero Ctr., 8th Floor
CITY: San Francisco
STATE: California
COUNTRY: USA
ZIP: 94111-3834
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/659,984A
FILING DATE: 07-JUN-1996
CLASSIFICATION: 436
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/485,152
FILING DATE: 07-JUN-1995
ATTORNEY/AGENT INFORMATION:
NAME: Heelin, James M.
REGISTRATION NUMBER: 29,541
REFERENCE/DOCKET NUMBER: 15270-002810US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-326-2400
TELEFAX: 415-326-2422
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 444 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-659-984A-5

Query Match 3.1%; Score 13; DB 2; Length 444;
Best Local Similarity 100.0%; Pred. No. 0.00089;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 285 LNKTDNGTYRCEA 297
|||||

Db 295 LNKTDNGTYRCEA 307
|||||

RESULT 74

US-08-660-531-5
Sequence 5, Application US/08660531
Patent No. 6221645
GENERAL INFORMATION:
APPLICANT: Chrysler, Susanna M.S.
APPLICANT: Sinha, Sukanto
APPLICANT: Keim, Pamela S.
APPLICANT: Anderson, John P.
TITLE OF INVENTION: Beta-Secretase
NUMBER OF SEQUENCES: 21
CORRESPONDENCE ADDRESS:
ADDRESSEE: Townsend and Townsend and Crew LLP
STREET: Two Embarcadero Ctr., 8th Floor
CITY: San Francisco
STATE: California
COUNTRY: USA
ZIP: 94111-3834
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/660,531
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/480,498

```
; FILING DATE: 07-JUN-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Heelin, James M.
; REGISTRATION NUMBER: 29,541
; REFERENCE/DOCKET NUMBER: 15270-002210US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-326-2400
; TELEFAX: 415-326-2422
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 444 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-660-531-5

Query Match      3.1%; Score 13; DB 3; Length 444;
Best Local Similarity 100.0%; Pred.No. 0.00089;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 285 LNKTDNGTYRCEA 297
Db 295 LNKTDNGTYRCEA 307
|||||

RESULT 75
US-09-248-796A-22504
; Sequence 22504, Application US/09248796A
; Patent No. 6747137
; GENERAL INFORMATION:
; APPLICANT: Keith Weinstock et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICAN
; FILE REFERENCE: 107196.132
; CURRENT APPLICATION NUMBER: US/09/248,796A
; CURRENT FILING DATE: 1999-02-12
; PRIOR APPLICATION NUMBER: US 60/074,725
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: US 60/096,409
; PRIOR FILING DATE: 1998-08-13
; NUMBER OF SEQ ID NOS: 28208
; SEQ ID NO 22504
; LENGTH: 543
; TYPE: PRT
; ORGANISM: Candida albicans
US-09-248-796A-22504

Query Match      3.1%; Score 13; DB 4; Length 543;
Best Local Similarity 100.0%; Pred.No. 0.0011;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 323 TTTTITTTTTTTT 335
Db 372 TTTTITTTTTTTT 384
|||||

Search completed: June 28, 2005, 10:22:32
Job time : 31.341 secs
```

THIS PAGE BLANK (USPTO)